

**NATIONAL TRANSPORTATION SAFETY BOARD  
Office of Research and Engineering  
Vehicle Recorder Division  
Washington, D.C. 20594**



**GROUP CHAIRMAN'S FACTUAL REPORT OF INVESTIGATION  
VOYAGE DATA RECORDER – AUDIO TRANSCRIPT**

***SS El Faro***

**DCA16MM001**

**By  
Sean Payne**

**WARNING**

The reader of this report is cautioned that the transcript of a voyage data recorder audio recording is not a precise science but is the best product possible from a Safety Board group investigative effort. The transcript or parts thereof, if taken out of context, could be misleading. The transcript should be viewed as an accident investigation tool to be used in conjunction with other evidence gathered during the investigation. Conclusions or interpretations should not be made using the transcript as the sole source of information.

**NATIONAL TRANSPORTATION SAFETY BOARD**  
Vehicle Recorder Division

December 12, 2016

## **Voyage Data Recorder – Audio Transcript**

### **Group Chairman’s Factual Report By Sean Payne**

#### **1. EVENT SUMMARY**

Location: 36 Miles NE of Crooked Islands, Bahamas  
Date: October 1, 2015  
Vessel: *El Faro*, Registration IMO: 7395351  
Operator: TOTE Services  
NTSB Number: DCA16MM001

On Thursday, October 1, 2015, about 07:15 a.m. eastern daylight time, the US Coast Guard received distress alerts from the 737-foot-long roll-on/roll-off cargo ship *El Faro*. The US flagged ship, owned by Sea Star Line, LLC, and operated by TOTE Services (TOTE), was 36 nautical miles northeast of Acklins and Crooked Islands, Bahamas, and close to the eye of Hurricane Joaquin. The ship was en route from Jacksonville, Florida, to San Juan, Puerto Rico, with a cargo of containers and vehicles. Just minutes before the distress alerts, the *El Faro* master had called TOTE’s designated person ashore and reported that the ship was experiencing some flooding. He said the crew had controlled the ingress of water but the ship was listing 15 degrees and had lost propulsion. The Coast Guard and TOTE were unable to reestablish communication with the ship. Twenty-eight US crewmembers and five Polish workers were on board.

#### **2. GROUP**

A transcription group was convened in multiple stages. Section 3.6 of this report covers the details of the three sittings of the transcription group. The group consisted of the following members:

Chairman:	Sean Payne Mechanical Engineer – Recorder Specialist National Transportation Safety Board
Member:	Michael Kucharski Senior Marine Accident Investigator National Transportation Safety Board
Member:	Cmdr. Matthew J. Denning Marine Board of Investigation Member United States Coast Guard

Member: Cmdr. Michael Odom  
Marine Board of Investigation Member  
United States Coast Guard

Member: Kevin P. Stith  
Master – *Perla Del Caribe*  
TOTE Services

### 3. DETAILS OF INVESTIGATION

The NTSB Vehicle Recorder Division received the following VDR:

Recorder Manufacturer/Model: **Sperry Voyage Master II<sup>1</sup> S-VDR**  
Recorder Serial Number: **A10631-000480**

#### 3.1 VDR Carriage Requirements

Chapter V of the International Convention for the Safety of Life at Sea (SOLAS), regulation 20, specifies VDR carriage requirements. Cargo ships larger than 3,000 gross tons, and all passenger ships regardless of tonnage, must be equipped with a VDR. The VDR for a cargo ship larger than 3,000 gross tons, constructed before July 2002, may be an S-VDR. *El Faro* was built in 1974. Either system requires a minimum of the most-recent 12 hours to be stored. In the event of an incident or accident, investigation authorities must be able to download and replay the VDR data without delay. Software, instructions, and special parts necessary for data extraction and replay are required to be contained within the main unit of a VDR.<sup>2</sup>

With a build date of 1975, the *El Faro* was equipped with a Sperry Voyage Master II S-VDR.

For additional details related to VDR carriage requirements, refer to the Electronic Data – Factual Report which is available in the public docket for this accident.

#### 3.2 Recorder Damage

The Sperry Voyage Master II S-VDR was recovered from the ocean floor on August 8, 2016. The Electronic Data – Factual Report details the damage to the S-VDR and procedure used to recover the data.

#### 3.3 Timing and Correlation

Details on time correlation from the VDR capsule to local time (EDT) are discussed in the Electronic Data – Factual Report. All times discussed in this report are given in EDT and

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<sup>1</sup> The Sperry Voyage Master II S-VDR is the North American marketing name for the Danalec VM200 S-VDR. Additionally, the Sperry Voyage Master II S-VDR installed on the *El Faro* contained a Danalec Marine MK3 internal VDR capsule. Sperry is a subsidiary of Northrop Grumman. Additional details about the Sperry Voyage Master II S-VDR can be found the Electronic Data - Factual Report which is available in the public docket for this accident.

<sup>2</sup> Refer to IMO resolution MSC.214(81) for required download and playback equipment for investigation authorities.

displayed in the format of HH:MM:SS.0 where HH stands for hours, MM stands for minutes and SS.0 stands for seconds to the nearest tenth. The time is displayed on a 24 hour clock; for example, 01:00:00.0 P.M. would indicate as 13:00:00.0.

Based on the time correlation, the recording began on September 30, 2015 at 05:36:50.0 and ended on October 1, 2015 at 07:39:41.8.

### 3.4 Audio Recording Description

Each channel's audio quality is indicated in Table 1. Table 1 lists the five audio tracks from the six microphones on and around the bridge that were recorded; each channel's audio quality is indicated in the table. All recordings were made in mono<sup>3</sup>.

**Table 1. Audio Quality and Channel Description**

Source Microphone	Channel Number	Quality <sup>4</sup>	Duration
BMU <sup>5</sup> 1A /BMU 1B	M1	Poor	26:01:41.4 <sup>6</sup>
BMU 2A /BMU 2B	M2	Poor	26:01:41.4
BMU 3A /BMU 3B	M3	Unusable	26:01:41.4
VHF 1	V4	Not Active <sup>7</sup>	26:01:41.4
AUD 4	M5	Crossover <sup>8</sup>	26:01:41.4

<sup>4</sup> Audio Quality Rating Scale provided in attachment 1 below.

<sup>5</sup> Bridge Mounted Unit – an individual microphone.

<sup>6</sup> Format given is HH:MM:SS.000, where HH is equal to the number of elapsed hours, MM is equal to the number of elapsed minutes and SS.000 is equal to the number of seconds to decimal places.

<sup>7</sup> The VHF audio channel was recorded as a flat signal with minimal interference. It is possible the VHF connected to channel V4 was not the VHF radio in use by the bridge crew during the *El Faro's* final voyage. The presence of the flat signal suggests that an unpowered VHF radio signal was recorded. VHF communications were instead transcribed through ambient noise from an open speaker system recorded to channels M1 and M2 on microphones BMU 1A, 1B, 2A and 2B.

<sup>8</sup> The waveform of the track was similar to channel M1, however, the amplitude of the signal was many orders of magnitude lower in comparison. This channel was considered unusable for transcription.

As shown in table 1, recording of person to person communications on the bridge was accomplished by using six microphones between 3 channels of audio. The transcript was prepared primarily from channels M1 and M2. Channel M3 was used sparingly as the channel's audio quality was described as unusable. Each channel of audio (M1, M2 and M3) recorded two microphone inputs. These two inputs were mixed into each channel within the VDR electronics cabinet located on the bridge. The cabinet mixed the two microphones on each channel into a single mono track. The channel was recorded in mono, it was not possible to isolate each microphone.

Table 2 describes each microphone's location on the bridge as described by the S-VDR's configuration file. In general, there were four microphones mounted internally to the bridge and two microphones fitted externally to the bridge on each bridge wing. A separate channel was wired to record VHF communications, however, this channel was found to be inactive (additional details within footnote 7). The configuration file for the VDR audio is provided as attachment 9 in the Electronic Data – Factual Report which can be found in the public docket for this accident.

<sup>3</sup> Monaural audio – a single channel of audio perceived from a single position or speaker.

**Table 2. Channel Description and Microphone Location**

Source Microphone	Channel Number	Location
BMU 1A	M1	Bridge Center
BMU 1B	M1	Bridge Starboard
BMU 2A	M2	Chart Table
BMU 2B	M2	Bridge Port
BMU 3A	M3	Port Bridge Wing
BMU 3B	M3	Starboard Bridge Wing
VHF 1	V4	Unknown VHF Source <sup>9</sup>
AUD 4	M5	N/A – Unused

<sup>9</sup> It is unknown which bridge mounted VHF this channel was wired to.

### 3.5 Recorded Duration and Missing Audio

Approximately 26 hours, 1 minute and 41.4 seconds of audio were recovered from the VDR capsule. As stated previously, the recording began on September 30, 2015 at 05:36:50.0 and ended on October 1, 2015 at 07:39:41.8. Using these times, the entire duration of the recorder should have been 26 hours, 2 minutes and 51.8 seconds; however, small areas of audio were determined to be missing from the recording.

The following time intervals contained missing audio:

For the area of time between 09:59:37.5 and 10:00:06.0 on September 30, 2015, approximately 28.5 seconds of audio was determined to be missing.

For the area of time between 12:34:37.6 and 12:34:51.0 on September 30, 2015, approximately 13.4 seconds of audio was determined to be missing.

For the area of time between 12:35:21.0 and 12:35:36.0 on September 30, 2015, approximately 15.0 seconds of audio was determined to be missing.

For the area of time between 16:33:23.5 and 16:33:37.0 on September 30, 2016, approximately 13.5 seconds of audio was determined to be missing.

In total, 1 minute and 10.4 seconds of audio was not recorded. Possible explanation for the missing audio is discussed in the Electronic Data – Factual Report, which can be found in the public docket for this accident.

### 3.6 Group Transcription

Investigators reviewed the entire 26 hours, 1 minute and 41.4 seconds of audio. The group convened in three separate sittings between the months of August 2016 and November 2016. The goal of the group was to transcribe the audio data pertinent to the accident investigation.

Initially, the group convened between August 22, 2016, and September 3, 2016. During this sitting, audio data from the recorder were transcribed for the period between 03:40 on October 1, 2015, until the moment of the data loss which occurred around 07:40 October 1, 2015. This time period included the handover of the watch change at approximately 04:00 on October 1, 2015, until the time of the loss of audio data.

The transcription group then reconvened between September 29 and October 8, 2016, and again between November 15<sup>th</sup> and November 16, 2016 to transcribe remaining pertinent sections of the recording.

### 3.7 Miscellaneous Information

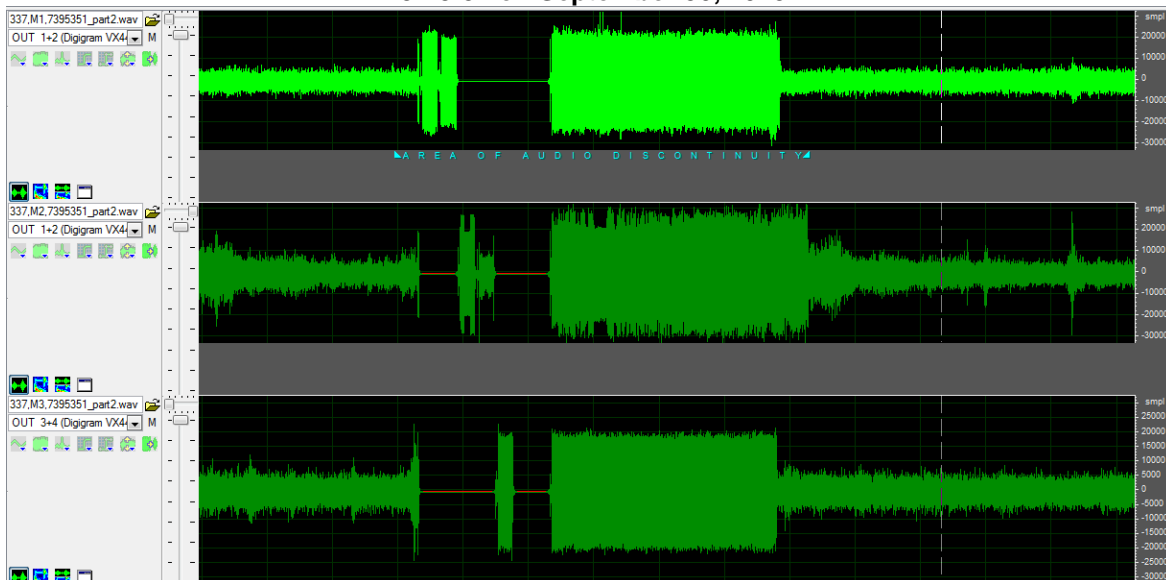
#### 3.7.1. Corrupted Audio

Two distinct areas of the recording produced no useable audio information. In these areas, a short high frequency tone was present on all three bridge audio channels followed by a prolonged high pitched whine. A total of 12 seconds of corrupted audio was found to be unrecoverable. This type of audio corruption was present at the following times during the recording:

- September 30, 2015, between approximately 18:28:22.9 and 18:28:29.3
- October 1, 2015, between approximately 06:28:26.1 and 06:28:31.7

An examination of the raw VDR capsule data in the manufacturer’s software confirmed that these two areas of audio corruption were present on the original recording and were not an artifact of either the exported audio track or the interpretation of the exported audio track in the NTSB’s laboratory software. Figure 1 shows the waveform across channels M1, M2, and M3 during the first time interval discussed above.

**Figure 1. The audio waveform across channels M1, M2 and M3 for the time period of 18:28:20 to 18:28:34 on September 30, 2015.**



#### 3.7.2. Audio Filtering

Table 1 describes VDR channels M1 and M2 as being of “poor” quality and channel M3 as being of “unusable” quality. Additionally, attachment 1 describes the NTSB’s definition of poor quality as the following:

“Extraordinary means had to be used to make some of the crew conversations intelligible. The transcript that was developed may indicate fragmented phrases and conversations and may indicate extensive passages where conversations were missing or unintelligible. This type of recording is usually caused by a combination of a high bridge noise level with a low voice signal (poor signal-to-noise ratio) or by a mechanical or electrical failure of the VDR system that severely distorts or obscures the audio information.”

Throughout the entire recording, a variety of digital audio enhancement filters were utilized by the transcription group. Some of the filters were NTSB in-house digital filters for speaking enhancement, while others were commercially available digital audio enhancement software programs. In some areas of the transcript, a combination of NTSB in-house digital speaking enhancement filters and commercially available filters were used simultaneously to maximize the amount of audio information available to the investigation.

Audio levels between the two audio tracks with voice data (M1 and M2) were constantly adjusted as the transcription was made to best identify voice and sound evidence. Additionally, the group had the ability to isolate each of these channels and apply custom audio filters in an attempt to identify speakers, spoken words and pertinent sounds. Although it was possible to isolate channels, it was not possible to isolate individual microphones (BMU 1A vs. BMU 2A for example) as each microphone was recorded to their respective audio track and mixed as mono as discussed in section 3.2 of this report.

### **3.7.3. Characterization of Sounds Other Than Conversation**

The entire recording was filled with non-voice sounds similar to a ship being operated at sea and later in the recording, the sounds similar to a ship being operated at sea in a storm. The group determined that only sounds of bridge alarms and communications transmissions (voice or data in nature) would be added to the transcript. Any other sound that the bridge crew commented on would also be added. An example of a sound detected on the audio recording that the crew later commented on is given below:

<b>M1</b>	
03:00:45.8	[sound similar to clacking or tapping on
03:00:47.8	the steel deck.]
<b>2M</b>	
03:00:47.8	rhut row. [spoken in a Scooby Doo
03:00:49.1	voice.]
<b>AB-2</b>	
03:00:49.6	hell was that?
03:00:51.1	

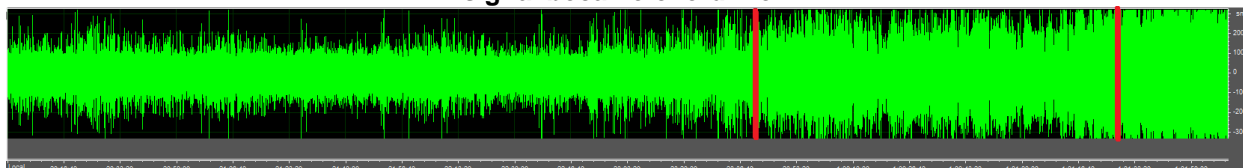
The selected excerpt can be found on page 339 of this report.

### 3.7.4. Degradation of Audio Quality as the Voyage Progressed

The audio quality continually degraded with the passage of time. When compared to other investigational data, the audio quality degraded as the ship experienced deteriorating weather conditions. The group noted that the following occurred in chronological order:

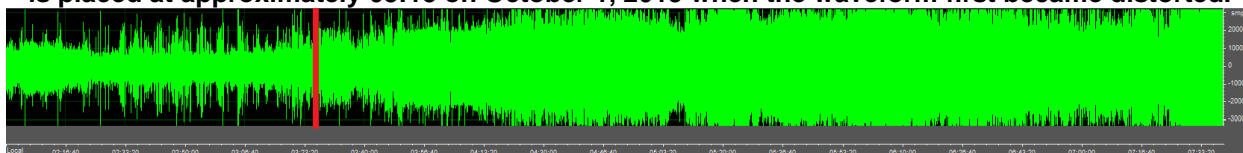
The overall waveform for Channel M2 began to show signs of being distorted around 23:40 on September 30, 2015, and eventually showed a low signal to noise ratio by approximately 01:30 on October 1, 2015. After the use of digital filters, this channel provided little to no useable information. Figure 2 shows the quality of the waveform from Channel M2 for the time interval between 20:00 on September 30, 2015 and 02:01 on October 1, 2015. A red line is indicated at approximately 23:40 on September 30, 2105 and 01:30 on October 1, 2015, respectively.

**Figure 2. The waveform of channel M2 between September 30, 2015 at 20:00 and October 1, 2015 at 02:01. A red line is indicated at approximately 23:40 on September 30, 2015 when the waveform first showed signs of distortion. A second line is placed at 01:30 on October 1, 2015 when the signal became overdriven.**



The overall waveform for Channel M1 began to show signs of being distorted around 03:15 on October 1, 2015, and progressed to have a low signal to noise ratio near the end of the recording at 07:39.41.8 on October 1, 2015. The use of digital audio filters allowed useable audio data to be extracted. Figure 3 shows the quality of the waveform from Channel M1 for the time interval between 02:00 on October 1, 2015, and 07:39:41.8 on October 1, 2015. A red line is indicated at approximately 03:15 on October 1, 2015.

**Figure 3. The waveform of channel M1 between 02:00 and 07:39:41.8 on October 1, 2015. A redline is placed at approximately 03:15 on October 1, 2015 when the waveform first became distorted.**



### 3.7.5. Noise Pollution - BMU 2A Placement Near a Curtain Track

The placement of the bridge mounted microphones in relation to other hardware on the ship's bridge affected the quality of the audio recording. Specifically, microphone BMU 2A that was mounted in the vicinity of the chart table recorded repeated noise pollution that affected the group's ability to determine the nature of conversations taking place near that microphone during critical moments of the voyage.

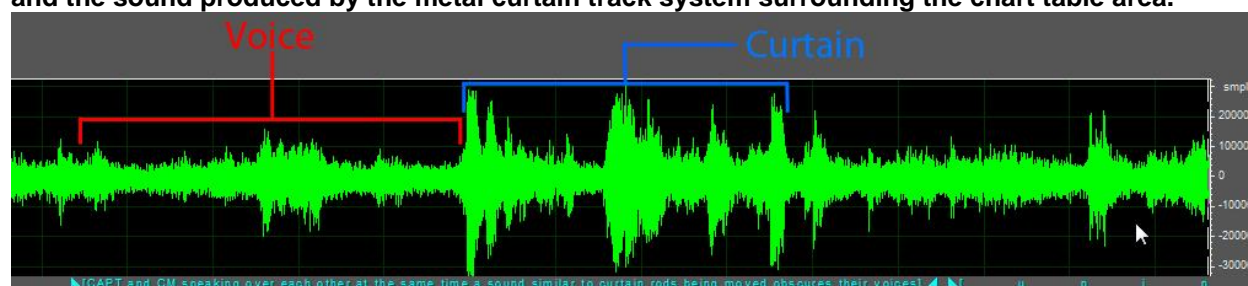
Group members familiar with the layout of the *El Faro's* bridge noted that a curtain on a metal curtain rail system hung in the vicinity of the chart table. The noise pollution on Channel 2 from BMU 2A was attributed to metal chaffing of the curtain rod hangers on the metal curtain track. The chaffing sound was initially correlated to when crew members



entered the chart table area and manipulated the curtain to gain access to the chart table. The chafing sound also correlated with commentary by the crew related to the roll of the ship during the voyage. As the ship continued the accident voyage and presumably encountered deteriorating weather conditions, the nature of the metal chafing sound increased in frequency, duration and intensity.

During the final transcribed portion, the chafing sound persisted and many conversations by the crew were drowned out by the sound of the metal curtain track. Figure 4 below is a screen capture of Channel M1’s waveform around the time 06:16:22 on September 30, 2015. Initially, the selected portion of the waveform shows a trace correlated to a human voice, as the waveform progresses, the signal becomes distorted by a sound similar to the metal curtain holders rubbing on the metal curtain track.

**Figure 4. A graphic representation of Channel M2’s waveform around 06:16:22 on September 30, 2015. The waveform is annotated to show the difference in amplitude between detected voice data and the sound produced by the metal curtain track system surrounding the chart table area.**



The interruptions of this sound relative to crew conversation were not specifically quantified but were numerous. The transcript relates unintelligible words or phrases as either one asterisk “ \* “ or up to three asterisks for a unintelligible phrase or spoken sentence “ \* \* \* .“ In many areas, unintelligible conversation could be specifically related to either the metal curtain or other noise pollution on the bridge.

### 3.7.6. Noise Pollution - Satellite Radio (Entertainment) Usage on the Bridge

The sound of a satellite entertainment radio system (SiriusXM) was present at various times throughout the entire recording. The exact moments at which the bridge mounted satellite radio feed was in use was not specifically transcribed, however, the usage is generalized in table 3 below. It could not be explicitly determined if the radio was turned “on” from an off state, or its volume was raised enough to be heard on the recording. Likewise, for an “off” state, it was not explicitly clear if the radio was ever turned off or just lowered to a volume that was not detectable on the recording.

**Table 3. Satellite Radio Usage on the *El Faro*’s Bridge. All times are approximate.**

Turned On or Volume Significantly Raised	Turned Lower	Turned Off or Very Low
11:58 - September 30, 2015	16:00 - September 30, 2015	1900 - September 30, 2015
01:08 - October 1, 2015	N/A	03:45 – October 1, 2015 <sup>10</sup>

<sup>10</sup> Ambient noise, presumably from the intensity of the weather conditions had already degraded the recording as described in section 3.6.4. by this time. For this reason, it was difficult to discern when exactly the radio had been lowered or shut off or whether or not it had lost signal.

The content of the satellite radio feed was only entered into the transcript for the following scenarios:

- The satellite radio feed provided content to the crew that was pertinent to the accident investigation.
- The crew commented on the content of the satellite radio feed.
- The crew commented on the quality of the signal of the satellite radio feed.
- The volume of the satellite radio feed was significantly changed in relation to a news/weather broadcast.

In general, when the satellite radio was in use, the group's ability to transcribe conversation deemed pertinent to the accident investigation was significantly affected. The use of audio filtering to cancel the ambient noise of the satellite radio feed was largely unsuccessful due to the similarities in frequency of human voice communication on the bridge and human voice transmitted over the satellite radio system.

### **3.7.7. Noise Pollution – Sound Similar to Grinding**

Sounds similar to power tools grinding metal in the vicinity of the *El Faro*'s bridge were detected on the recording. These sounds were associated with the work of the Polish supernumeraries aboard *El Faro*. Sounds similar to grinding metal were heard between approximately 08:55 and 17:00 on September 30, 2015. In many cases the sound similar to metal grinding affected the group's ability to pursue a precise transcription. The use of audio filtering to cancel the ambient noise of the metal grinding sound was marginally successful. In some areas the sound similar to metal grinding could be isolated by muting Channel M2. In many areas, voice data remained unintelligible when the sound of heavy metal grinding was present on the recording.

Transcript of a Sperry Voyage Master II simplified voyage data recorder, serial number A10631-000480, installed on TOTE Services Cargo Ship *El Faro* (IMO: 7395351), which sank in approximately 15,250 feet of water 36 Miles NE of Crooked Islands, Bahamas.

## LEGEND

### Sound Sources

<b>ALL CHAN.</b>	Voice and or sound data detected on channels M1, M2, and M3.
<b>M1</b>	Bridge Mounted Units 1A & 2A – Source of a non-voice sound from channel M1.
<b>M2</b>	Bridge Mounted Units 2A & 2B – Source of a non-voice sound from channel M2.
<b>M3</b>	Bridge Mounted Units 3A & 3B – Source of a non-voice sound from channel M3.

### Speakers

<b>2M</b>	Second Mate - <i>El Faro</i>
<b>3M</b>	Third Mate - <i>El Faro</i>
<b>3AEX</b>	Unidentified Third Assistant Engineer (3AE1, 3AE2 or 3AE3) – <i>El Faro</i>
<b>AB-1</b>	Able Seaman 1 – Helmsman 1 - <i>El Faro</i>
<b>AB-2</b>	Able Seaman 2 – Helmsman 2 - <i>El Faro</i>
<b>AB-3</b>	Able Seaman 3 – Helmsman 3 - <i>El Faro</i>
<b>CAPT</b>	Captain - <i>El Faro</i>
<b>CAPT-EY</b>	Captain - <i>El Yunque</i> – Not present on the accident voyage.
<b>CM</b>	Chief Mate - <i>El Faro</i>
<b>CM-EY</b>	Chief Mate - <i>El Yunque</i> – Not present on the accident voyage.
<b>SUP-1</b>	Alternate Chief Engineer of <i>El Faro</i> acting as a supernumerary - <i>El Faro</i>
<b>USCG</b>	Transmission from the United States Coast Guard.
<b>?</b>	Voice unidentified; an unknown speaker.

### Individuals mentioned in conversation only

<b>2AE</b>	Second Assistant Engineer – <i>El Faro</i>
<b>3AE1</b>	Third Assistant Engineer #1 – <i>El Faro</i>
<b>3AE2</b>	Third Assistant Engineer #2 – <i>El Faro</i>
<b>A3M</b>	Alternate Chief Mate – <i>El Faro</i> – Not present on accident voyage.
<b>AE</b>	First Assistant Engineer – <i>El Faro</i>
<b>AELEC</b>	Alternate Electrician – <i>El Faro</i> . Not present on the accident voyage.
<b>CC</b>	Chief Cook - <i>El Faro</i>
<b>CE</b>	Chief Engineer – <i>El Faro</i>
<b>DLRTS</b>	Director of Labor Relations TOTE Services – Not present on the accident voyage.

<b>DPA</b>	Designated Person Ashore. Not present on the accident voyage.
<b>EX2M</b>	Ex Second Mate – <i>El Faro</i> . Not present on the accident voyage.
<b>EXCM-EY</b>	Ex Chief Mate – <i>El Yunque</i> . Not present on the accident voyage.
<b>GUDE</b>	General Utility, Deck and Engine worker – <i>El Faro</i>
<b>OTE</b>	Other TOTE Engineer – Not present on the accident voyage.
<b>REFENG</b>	Refrigeration Engineer
<b>SA</b>	Steward Assistant - <i>El Faro</i>
<b>SUP-2</b>	Polish Shiprider, a supernumerary – <i>El Faro</i>
<b>TMJAX1</b>	Terminal Manager TOTE Jacksonville – Not present on the accident voyage.
<b>TMJAX2</b>	Other Terminal Manager TOTE Jacksonville – Not present on the accident voyage.
<b>UNK</b>	Reference to an unknown person.

### Suffixes and Miscellaneous Information

<b>-VHF</b>	Radio transmissions over VHF radio. Communications external to the ship.
<b>-UHF</b>	Radio transmissions over UHF radio. Communications internal to the ship.
<b>-ET</b>	Conversation over the bridge mounted electric telephone.
<b>-FBB</b>	Conversation over the Globe i250 FleetBroadband telecommunications system.
<b>SXM</b>	Bridge mounted Sirius XM entertainment radio.
<b>*</b>	Unintelligible word.
<b>#</b>	Expletive.
<b>@</b>	Non-pertinent word, in most cases, an individual's name.
<b>( )</b>	Questionable insertion – the group either could not agree or was uncertain of a spoken word or phrase.
<b>[ ]</b>	Editorial insertion.

Note 1: Times are expressed in eastern daylight time (EDT). The start and stop times (up and down time) of each comment are listed to the left of each comment.

Note 2: Generally, only radio transmissions to and from the *El Faro* are transcribed. No other pertinent external radio traffic was detected during the recording.

Note 3: The transcript is divided in two portions. The left portion describes primary communications which designates one series of communications as being more pertinent to the investigation than a simultaneously occurring secondary series of communications. The right portion describes secondary communications as well as electronic communications (VHF radio, UHF radio, Sirius XM radio etc.). When two electronic communications occurred simultaneously, the electronic communication considered primary was put in the left "primary communications" column.

Note 4: Words shown with excess vowels, letters, or drawn out syllables are a phonetic representation of the words as spoken.

Note 5: A non-pertinent word, where noted, refers to a word not directly related to the operation, control or condition of the ship. In most cases throughout the transcript this was the spoken name of an individual.

Note 6: Use of ellipses (...) indicates either the speaker trailed off or an incomplete thought.

Note 7: En dashes ( — ) are used in place of commas to indicate pauses.

Note 8 Em dashes ( — ) are used to indicate when the speaker was cut off by another speaker or paused for an extended length of time.

Note 9: Use of underlining a word or phrase indicates the speaker placed specific emphasis on those words; used sparingly.

Note 10: The names of ships are *italicized*.

Note 11: “Sat-C” refers to Inmarsat-C SafetyNET, a weather service product in use on the *El Faro*.

Note 12: “B-V-S” refers to the Bon Voyage System, a weather service product in use on the *El Faro*.

Note 13: “NAVTEX” refers to Navigational Telex, a weather service product in use on the *El Faro*.

**Primary Communications**

**Secondary and Electronic Communications**

**WEDNESDAY, SEPTEMBER 30, 2015**

**ALL CHAN.** START OF RECORDING  
05:36:50.0  
05:57:15.0 [Area of non-pertinent conversation or no conversation.]

**CAPT**  
05:57:15.0 (gets) \* \* .  
05:57:15.9

**CM**  
05:57:16.4 first wall of water– gunna get a (full/a whole) line of rain squalls.  
05:57:25.5

**ALL CHAN.**  
05:57:25.5 [Area of non-pertinent conversation or no conversation.]  
06:01:46.6

**CM**  
06:01:46.6 (got) the swell. \* .  
06:01:49.5

**CAPT**  
06:01:49.6 oh yeah. probably gunna get worse.  
06:01:52.1

**CM**  
06:01:53.3 actually– wanted to—  
06:01:55.7

**CAPT**  
06:01:56.2 show you the latest.  
06:01:57.7

**CM**  
06:01:58.8 \* \* \* further south.  
06:02:08.1

**?**  
06:02:08.0 \* \* \* .  
06:02:09.5

## Primary Communications

**CAPT**

06:02:09.2 sure it is.  
06:02:10.7

**CM**

06:02:15.0 this– the one that just came in.  
06:02:17.6

**CM**

06:02:20.9 \* \* \* zero-six-(one). \* \* \* and that's right here. zero two A-M fix twenty-  
06:02:39.2 four hours at (nine to ten/nineteen/nine-two) knots.

**CAPT**

06:02:39.5 perfect.  
06:02:40.4

**CM**

06:02:41.9 um now we're doin' twenty knots. it's picked up. so it'll be even farther–  
06:02:59.7 there. it's– it's on the B-V-S [Bon Voyage System] (unless/list) we got a  
new one yet. course lookin' at this...

**CAPT**

06:02:45.1 yeah.  
06:02:45.7

**CAPT**

06:02:59.7 look. remember how we saw this the other day. festering. and we  
06:03:05.5 talked about these are the worst.

**CM?**

06:03:05.6 \* \* (hard to predict) .  
06:03:07.7

**CAPT**

06:03:09.6 look at the total transformation of this steady...  
06:03:14.6

**CM**

06:03:14.6 \* \* \* meandering. (they– they think \* \* high here) \* \* all gunna (came  
06:03:23.4 back here) (or is) that (gunna be) tropical depression?

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:03:23.4 ya know I think it was the tropical depression at the southern edge of  
06:03:29.0 that trough.

**CM**

06:03:28.9 maybe.  
06:03:29.8

**CM**

06:03:35.9 (definitely) sat there at six o'clock.  
06:03:39.5

**CM**

06:03:40.4 \* \* at twenty-five and seventy-five (we're) here not here but here. \*  
06:03:57.8 latest updates I'm anxious to see the newest B-V-S.

**CAPT**

06:03:55.6 I'm connecting right now.  
06:03:57.6

**CM**

06:03:58.0 \* \* \* (guessin'/unless) (we're/we'll) just skirtin' the yellow here (where it  
06:04:06.3 gets). we'll see.

**CAPT**

06:04:06.3 well we'll see how it goes.  
06:04:08.0

**CM**

06:04:09.2 \* \* \*.  
06:04:13.3

**CAPT**

06:04:13.5 (consider/see where) this is forecasted to go north.  
06:04:16.4

**CM**

06:04:15.8 \*.  
06:04:16.5

**CAPT**

06:04:16.8 and that– that takes your option out (at top/to top it).  
06:04:20.4

## Secondary and Electronic Communications



## Primary Communications

**CM**

06:04:20.6 \* \* \* (even so/slow) the worst weather's up here.  
06:04:23.9

**CAPT**

06:04:24.0 correct.  
06:04:24.7

**CAPT**

06:04:27.2 so we'll just have to tough this one out.  
06:04:29.5

**?**

06:04:29.9 that's it.  
06:04:31.1

**CM**

06:04:31.1 \* \* come down south of the track line.  
06:04:35.4

**CAPT**

06:04:35.7 yeah.  
06:04:36.1

**CM**

06:04:37.1 either that or it's \* \* merging \* \* Old Bahama Channel when we get  
06:04:47.2 when we get there. I would wait. get more information.

**CAPT**

06:04:47.0 \* \* this information.  
06:04:49.3

**CM**

06:04:48.2 yessir yessir.  
06:04:50.0

**?**

06:04:51.9 \* \* \*. [CAPT, CM and possibly one other voice all speaking  
06:04:56.6 simultaneously.]

**CAPT/CM**

06:04:57.2 \* \* \*. [CAPT and CM talking simultaneously, unintelligible.]  
06:05:02.0

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:05:02.1 this doesn't look bad. this doesn't \* \* .  
06:05:04.9

**CAPT**

06:05:04.9 twelve to fifteen feet.  
06:05:06.8

**CM**

06:05:06.8 \* \* the ship can handle it. tell me more about it.  
06:05:11.1

**CAPT**

06:05:11.7 naw we'll see we'll see what the schedule looks like.  
06:05:14.4

**CM**

06:05:14.2 (for) sure.  
06:05:15.1

**ALL CHAN.**

06:05:15.1 [Area of non-pertinent conversation or no conversation.]  
06:08:58.3

**CAPT**

06:08:58.3 make sure this gets in there. somebody.  
06:09:01.0

**CM**

06:09:02.4 I will.  
06:09:03.7

**CM**

06:09:03.8 (basically) I think it's uhh...  
06:09:07.5

**CAPT**

06:09:07.9 Monday. the twenty-eighth.  
06:09:10.9

**CM**

06:09:12.8 \* \* gettin' visitor's logs and make sure it's in there. \* \* .  
06:09:21.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:09:21.4  
06:09:25.6

make sure the second mate (puts/gets) it.

**CM**

06:09:28.2  
06:09:30.6

(shoulda) done this.

**CAPT**

06:09:35.7  
06:09:42.1

(guess I'll wait) \* \* go on (uh) \* \* go down below. \* how the weather is.

**CM**

06:09:42.2  
06:09:44.0

okay. \*.

**CM**

06:09:44.5  
06:09:52.2

good. then that's our first order of business. right? (our) second order of business.

**CAPT**

06:09:51.8  
06:10:00.7

chat. makin' sure all his boys got all their rounds– (stocks)– doors– (gotta get) the lifeboats (here). It's just \* \*.

**CM**

06:10:01.8  
06:10:04.6

(I'll) talk to my guys as well.

**CAPT**

06:10:05.4  
06:10:06.5

be right up.

**CM**

06:10:06.3  
06:10:07.1

sir.

**ALL CHAN.**

06:10:07.1  
06:13:31.3

[Area of non-pertinent conversation or no conversation.]

**CAPT**

06:13:31.3  
06:13:38.8

alright I just sent up the latest weather. let us clear everything off the chart table with the exception of the charts.

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:13:39.6  
06:13:40.2

yessir.

**CAPT**

06:13:49.6  
06:13:57.1

\* \* \* charts \* \* \* certainly don't belong here \* \* \*.

**CAPT**

06:14:02.6  
06:14:07.1

see if the weather's come up here and you can open that up.

**CM**

06:14:08.9  
06:14:12.6

and maybe \* \* \*.

**CAPT**

06:14:12.4  
06:14:13.4

yup. yeah.

**CM**

06:14:14.5  
06:14:16.4

and \* \*.

**CAPT**

06:14:24.5  
06:14:29.3

it's tracking as the written weather has it. it's gone a little south.

**CM**

06:14:46.1  
06:14:55.1

even the northwest (Providence) route \* \* out here. we'd have to come down. \* \* \*.

**CM**

06:14:57.4  
06:14:59.6

\* \* \*.

**CAPT**

06:14:59.7  
06:15:00.5

yeah.

**CAPT**

06:15:08.4  
06:15:18.1

this is why you watch the weather all the time. all the time. [sound of throat being cleared] absolutely.

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:15:19.3 this ain't zoomin' in.  
06:15:20.9

**CAPT**

06:15:20.6 oh yeah yeah.  
06:15:22.1

**CM**

06:15:22.0 I'm not sure why but this program seems to really zoom out when it's  
06:15:27.9 done loading.

**CAPT**

06:15:27.6 yup.  
06:15:27.9

**CM**

06:15:28.5 I'm waitin' for that to happen. there we go. \* \* \* .  
06:15:36.4

**CM**

06:15:44.5 there. that's (right/how) \* \* lot different \* \* \* .  
06:15:48.8

**CAPT**

06:15:49.2 yeah.  
06:15:50.0

**CM**

06:15:54.0 (got it figured out)?  
06:15:56.1

**CAPT**

06:15:55.9 yup.  
06:15:56.1

**CM**

06:15:56.5 \* \* .  
06:15:57.3

**CM**

06:15:58.4 (a one— a six) .  
06:16:01.0

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:16:02.9 we're south and west of it.  
06:16:04.8

**CM**

06:16:04.7 uh huh.  
06:16:05.2

**CAPT**

06:16:05.3 so let's open that up.  
06:16:06.9

**CAPT**

06:16:08.4 come down here a little bit you know what I'm sayin'?  
06:16:11.3

**CAPT**

06:16:11.0 yeah. (you) can steer a little bit more away from it— a little more away  
06:16:14.0 from the center.

**CM**

06:16:14.2 sure. yeah.  
06:16:16.0

**?**

06:16:17.7 [sound of throat being cleared.]  
06:16:18.3

**CAPT/CM**

06:16:19.2 \* \* \*. [CAPT and CM speaking over each other at the same time a  
06:16:24.2 sound similar to curtain rods being moved obscures their voices.]

**CAPT/CM**

06:16:24.3 \* \* \*. [unintelligible conversation between CAPT and CM].  
06:16:42.0

**CM**

06:17:01.6 \* \* \*.  
06:17:06.8

**CAPT**

06:17:07.1 I'll make another weather \* \* (just on the verge now/no diversion).  
06:17:12.4

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:17:15.8 twenty-eight fifty-four north.  
06:17:18.0

**CAPT**

06:17:17.7 yeah twenty-eight fifty-four.  
06:17:19.1

**CM**

06:17:18.8 zero-seven-eight (decimal) west.  
06:17:22.0

**CAPT**

06:17:22.2 what do you want the course?  
06:17:24.2

**CAPT**

06:17:27.5 yeah. changin' it's appearance and direction overnight \* \* (not sure of  
06:17:33.7 the wind).

**CM**

06:17:33.4 okay. oh # \* \* \*.  
06:17:42.8

**CAPT**

06:17:42.9 well (they/we) will be securing \* \* \*.  
06:17:45.8

**CM**

06:17:47.0 heavy weather.  
06:17:48.1

**CM**

06:17:50.8 (okay).  
06:17:51.2

**CAPT**

06:18:08.6 (we're) lookin' at an extreme divergence from this one.  
06:18:14.4

**CAPT**

06:18:16.1 I mean... ten miles (north/off).  
06:18:20.0

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:18:26.4 pick a random number.  
06:18:28.2

**CM**

06:18:28.2 yup.  
06:18:28.7

**CAPT**

06:18:28.9 yeah.  
06:18:29.4

**CM**

06:18:30.0 I mean that's– that's the way (it goes/to go). \* \* \*.  
06:18:35.4

**CAPT**

06:18:42.3 get uh get a position (there/now/down). determine its track.  
06:18:45.2

**CM**

06:18:46.5 yeah.  
06:18:47.2

**CM**

06:18:48.7 I'll get the next chart (here/down).  
06:18:51.1

**CAPT**

06:18:51.0 mhmm.  
06:18:51.6

**CAPT**

06:19:22.7 let's take a look at this see how it (is/goes).  
06:19:25.8

**CM**

06:19:29.6 it could go (in/to the) \* \* \* but instead of paralleling from here (it could  
06:19:41.5 be further down then that) \* \*.

**CAPT**

06:19:44.7 I think it's important. put a put a position there and make sure we run it  
06:19:54.4 though that. ten miles. ten miles off here.

## Secondary and Electronic Communications



## Primary Communications

**CM**

06:19:51.7  
06:19:59.9

\* \* ten miles over here. even if it's even if \* \* fifty's the longitude.

**CM**

06:20:07.8  
06:20:35.7

the longitude is zero-seven-six fifty minutes and latitude is twenty-six degrees forty minutes. and that's actually a (one and a half / line and a half / knot in a half). \* \* \*.

**CAPT**

06:20:34.9  
06:20:36.3

(good).

**CM**

06:20:45.6  
06:20:47.7

what is this (we're on/course)?

**CM**

06:20:59.2  
06:21:00.5

\* \* .

**CAPT**

06:21:01.4  
06:21:03.5

(huh. yeah. alright).

**CM**

06:21:06.5  
06:21:09.2

\* \* \* .

**CAPT**

06:21:13.2  
06:21:14.4

(our heading)?

**CAPT**

06:21:16.3  
06:21:19.1

(wanna turn/on this head) twenty-six fifteen?

**CM**

06:21:19.5  
06:21:20.9

\* turn.

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:21:27.1  
06:21:29.6

\* \* that little brass thing.

**CAPT**

06:21:29.8  
06:21:31.5

(don't even) have to be brass.

**CM**

06:21:31.1  
06:21:34.2

yeah I know \* (we're not the government we go for style).

**CAPT**

06:21:34.6  
06:21:35.8

[sound of clearing throat] yep.

**CAPT**

06:21:42.3  
06:21:43.7

[sound of clearing throat.]

**CAPT**

06:21:45.2  
06:21:48.8

what do you want to call this waypoint? how's alpha?

**CM**

06:21:49.1  
06:21:50.3

alpha.

**CAPT**

06:21:50.4  
06:21:52.5

call it waypoint alpha. how's that?

**CM**

06:21:52.2  
06:21:53.1

yes sir.

**CM**

06:21:58.3  
06:21:59.6

\*

**CAPT**

06:22:00.7  
06:22:03.3

so we need a course to that...

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:22:03.2 (roger that) \* \* .  
06:22:04.8

**CAPT**

06:22:04.9 I would double check everything 'cause I'm gunna run it run the  
06:22:11.1 Mercator projection down just to make sure.

**CM**

06:22:10.7 yeah.  
06:22:11.0

**CAPT**

06:22:10.9 what's helpin' us right now is our speed.  
06:22:13.6

**CAPT**

06:22:17.7 sure. let's share.  
06:22:20.2

**CAPT**

06:22:27.2 here I got the six.  
06:22:28.8

**CAPT**

06:22:31.3 one-six-one.  
06:22:33.6

**CAPT**

06:22:54.4 \* \* .  
06:22:55.8

**CAPT**

06:22:57.3 connect(ed) the dots.  
06:22:59.0

**CM**

06:22:59.3 (right).  
06:23:00.1

**CM**

06:23:02.5 \* \* \* .  
06:23:05.2

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:23:06.0  
06:23:09.7

\* \* \* twenty-eight (fifty/fifteen) something.

**CAPT**

06:23:09.4  
06:23:12.0

twenty-eight fifty-four.

**CM**

06:23:11.8  
06:23:14.5

seventy-eight heading's one-sixty.

**CM**

06:23:16.8  
06:23:18.8

(here) there.

**CAPT**

06:23:17.7  
06:23:19.7

mhmm mhmm.

**CM**

06:23:26.5  
06:23:28.5

one-four-zero.

**CM**

06:23:30.8  
06:23:32.3

\* want to check?

**CAPT**

06:23:32.3  
06:23:33.2

yeah.

**CM**

06:23:32.9  
06:23:34.0

go ahead and label it?

**CAPT**

06:23:33.7  
06:23:35.6

\* (pretty/we're) good.

**CM**

06:23:48.9  
06:23:55.4

it's twenty– twenty the additional miles \* (good).

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:23:55.0 and then if the storm doesn't come this deep to the southwest as  
06:24:02.4 anticipated we can just come around it.

**CM**

06:24:02.9 so do you you wanna look at that waypoint one?  
06:24:06.0

**CAPT**

06:24:06.1 I do.  
06:24:06.9

**CM**

06:24:08.2 you wanna go ahead and turn?  
06:24:10.2

**CAPT**

06:24:10.2 take a take another \* \* look. this is only gonna take another minute or  
06:24:15.0 so.

**CM**

06:24:17.3 steer (a little/one-three-one).  
06:24:18.9

**CAPT**

06:24:24.5 alright so this is one-forty.  
06:24:28.0

**CAPT**

06:24:37.4 one-forty.  
06:24:38.7

**CM**

06:24:38.5 yes sir.  
06:24:39.6

**CM**

06:24:55.7 \* \* \*  
06:24:58.9

**CAPT**

06:24:59.0 I don't think so.  
06:25:00.1

## Secondary and Electronic Communications

**Primary Communications**

**CM**  
06:25:04.9 this one here \* \* .  
06:25:07.9

**CAPT**  
06:25:11.8 chief?  
06:25:13.3

**CM**  
06:25:16.2 you wanna write on this same yellow pad?  
06:25:18.1

**CAPT**  
06:25:19.9 I'm not showing any \* \* \* .  
06:25:25.7

**CM**  
06:25:25.8 yes sir.  
06:25:26.5

**CAPT**  
06:25:28.1 make it (more professional).  
06:25:30.3

**CM**  
06:25:30.3 twenty-four fourteen and that makes the next waypoint bravo.  
06:25:35.1

**CAPT**  
06:25:34.8 mhmm.  
06:25:35.5

**CM**  
06:25:36.0 and...  
06:25:37.5

**Secondary and Electronic Communications**

**M1/M2**  
06:25:08.0 [sound of SAT-C terminal receiving incoming  
06:25:21.5 message.]

**M1/M2**  
06:25:25.0 [sound of SAT-C terminal printer printing.]  
06:26:32.8

## Primary Communications

**CM**

06:25:45.9

\* \* zero-seven-four two-zero.

06:25:51.7

**CAPT**

06:25:53.2

seventy-four twenty.

06:25:54.3

**CM**

06:25:54.0

seventy-four twenty.

06:25:54.9

**CAPT**

06:25:55.0

waypoint bravo.

06:25:56.3

**CM**

06:25:56.1

yes sir.

06:25:56.8

**CAPT**

06:25:57.5

connect those two dots \* \*.

06:26:00.2

**CAPT**

06:26:01.0

neaten this up.

06:26:02.5

**CM**

06:27:31.0

\* check that with that. recommend from there straight through to the uh  
pilot station.

06:27:38.3

**CAPT**

06:27:32.7

mhmm.

06:27:33.6

**CAPT**

06:27:38.1

I concur.

06:27:38.8

**CM?**

06:27:39.0

yeah (what that makes).

06:27:40.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:27:40.4  
06:27:55.0  
yeah and what we'll do is once we know what this storm is clearin' up  
outta here we'll be more assertive towards getting back to the uh  
optimum trackline so we don't have to \* \* so much.

**CM**

06:27:54.8  
06:27:55.4  
yeah.

**CAPT**

06:27:55.3  
06:28:01.0  
yeah but right now just scratch that rhumb line course from bravo to the  
station.

**CM**

06:28:00.7  
06:28:01.5  
yes sir.

**All CHAN.**

06:28:19.9  
06:28:27.0  
[Audio file error in this area. Audio unusable.]

**?**

06:28:38.0  
06:28:39.1  
\* \*.

**CM**

06:28:40.8  
06:28:43.9  
(okay). one-three-seven to one-two-seven.

**CAPT**

06:28:43.4  
06:28:45.1  
yep. I agree.

**CAPT**

06:28:45.3  
06:28:47.8  
I think that's a good little plan chief mate.

**CAPT**

06:28:49.7  
06:28:54.1  
at least I think we got a little distance from the center.

## Secondary and Electronic Communications



## Primary Communications

**CM**

06:28:54.1 it's predicted now.  
06:28:56.0

**CAPT**

06:28:57.8 (tell us) \*.  
06:28:58.6

**CM**

06:28:58.5 I'm lookin' at uh seventy-five seventy-four twenty something.  
06:29:08.0

**CAPT**

06:29:08.3 okay.  
06:29:09.0

**CM**

06:29:09.0 \* \* .  
06:29:09.5

**CAPT**

06:29:09.2 so seventy-four seventy-five.  
06:29:11.4

**CM**

06:29:11.4 this is this is where we're gunna wanna be.  
06:29:13.8

**CAPT**

06:29:13.7 yeah.  
06:29:14.2

**CM**

06:29:14.2 intersect right here. and that's more like fifty miles out.  
06:29:18.2

**CAPT**

06:29:14.8 (alright).  
06:29:15.7

**CAPT**

06:29:18.3 much better.  
06:29:19.1

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:29:19.0

then dead center.

06:29:20.9

**CAPT**

06:29:20.3

(yeah/alright).

06:29:21.2

**CAPT**

06:29:21.3

nuts on as we say.

06:29:22.8

**CM**

06:29:26.7

\* \* \* B-V-S \* \* \* change the route a little bit and look at it (see how it's

06:29:38.3

doin') feel better.

**CAPT**

06:29:36.3

yeah. uh huh.

06:29:38.0

**CAPT**

06:29:39.0

let's do it right now.

06:29:40.1

**CM**

06:29:40.1

and so we'll look out the window.

06:29:41.5

**CM**

06:29:42.9

aaaand we're lookin' good here.

06:29:48.0

**CM**

06:29:50.5

and this thing that is comin' in.

06:29:53.3

**CAPT**

06:29:53.0

it's probably our next weather update.

06:29:55.8

**CM**

06:29:55.6

okay so we're gettin' three hours.

06:29:58.3

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:29:58.7 METAREA no naw METAREA four. message \* \* \*. [METAREA IV, a  
06:30:03.7 geographic sea region, in this case a portion of the North Atlantic from  
7°N to 67°N in latitude.]

**M1**

06:30:02.2 [sound similar to paper being torn.]  
06:30:03.7

**CM**

06:30:07.8 this will give us another position.  
06:30:10.1

**CM**

06:30:14.8 this is where he is right now.  
06:30:16.8

**CAPT**

06:30:20.2 I can go down below.  
06:30:22.6

**CM**

06:30:22.6 yeah actually we're done with this chart.  
06:30:24.7

**CAPT**

06:30:24.4 that's fine. this chart here.  
06:30:26.5

**CM**

06:30:26.3 yes sir.  
06:30:26.9

**CM**

06:30:27.8 which \* do you want to plot? you wanna plot some weather?  
06:30:32.1

**CM**

06:30:34.1 the system itself.  
06:30:36.1

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:30:41.1

\* \* \*

06:30:46.2

**CAPT**

06:30:45.7

alright.

06:30:46.5

**CM**

06:30:56.3

let me use the six.

06:30:57.7

**CAPT**

06:30:57.7

alright.

06:30:58.2

**CAPT**

06:30:58.3

(I'm gunna bust it).

06:30:59.6

**CM**

06:30:59.7

umm you mean do it? yes? yes.

06:31:04.1

**CAPT**

06:31:03.1

yes.

06:31:03.8

**CM**

06:31:05.5

(alright) \* \* traffic \* \* \*.

06:31:09.6

**CAPT**

06:31:09.7

(get/make) yourself a (copy/coffee) or somethin'.

06:31:11.8

**CAPT/CM**

06:31:24.5

\* \* \*. [unintelligible conversation between CAPT and CM.]

06:31:34.3

**CAPT**

06:31:34.5

get down on that line.

06:31:36.4

## Secondary and Electronic Communications

## Primary Communications

**CM**  
06:31:38.6 well I had I had clicked. (I'm tryin') \* on the B-V-S six \* \* \* .  
06:31:43.9

**CAPT**  
06:31:43.8 that's your six right?  
06:31:45.5

**CM**  
06:31:45.5 that's right.  
06:31:46.1

**CAPT**  
06:31:46.2 alright.  
06:31:46.7

**CAPT**  
06:31:47.0 read it off to me please.  
06:31:48.3

**CM**  
06:31:48.1 it's twenty-eight fifty-four.  
06:31:49.7

**CAPT**  
06:31:49.9 twenty-eight...  
06:31:52.6

**CM**  
06:31:57.4 zero-seven-eight.  
06:31:59.0

**CM**  
06:32:00.1 fifty-six.  
06:32:00.9

**CAPT**  
06:32:01.0 zero. seven. eight.  
06:32:05.3

**CAPT**  
06:32:07.5 fifty-six.  
06:32:09.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:32:11.4 (what) time we're gunna call that? it's ten o'clock G-M-T right?  
06:32:15.8

**CM**

06:32:18.9 it's ten (here) on the first.  
06:32:21.9

**CAPT**

06:32:20.5 yep.  
06:32:21.2

**CM**

06:32:28.6 I- I just put the time in and it figures \* \* \* .  
06:32:36.5

**CAPT**

06:32:41.7 \* (to) thirty.- and uhhh...  
06:32:48.5

**CAPT**

06:32:57.8 okay. let's drop another waypoint. give me waypoint alpha.  
06:33:00.7

**CM**

06:33:00.8 twenty-six forty.  
06:33:02.6

**CAPT**

06:33:06.3 twenty- six - forty.  
06:33:10.2

**CM**

06:33:11.5 zero-seven-six.  
06:33:13.9

**CAPT**

06:33:14.7 zero- seven- six.  
06:33:18.0

**CAPT**

06:33:21.2 we'll we'll change the speed and stuff like that.  
06:33:24.8

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:33:32.7

waypoint bravo.

06:33:34.0

**CM**

06:33:34.5

twenty-two four six.

06:33:36.3

**CAPT**

06:33:42.6

yep.

06:33:43.0

**CM**

06:33:43.7

zero seven four \*.

06:33:45.3

**CM**

06:33:53.6

that should be it.

06:33:55.3

**CAPT?**

06:33:55.5

\* \* \*.

06:33:56.8

**CAPT**

06:34:30.3

(which ones the) \*?

06:34:31.9

**CM**

06:34:33.0

\* \* and check it.

06:34:36.0

06:34:36.5

just say– yeah– if you need lights just turn it on.

06:34:38.5

**CAPT**

06:34:56.1

startin' to get the (seas).

06:34:58.0

**CAPT**

06:35:01.2

\* \* \* save as.

06:35:06.1

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:35:11.1

\* \* \* joe-waa-kin. [typed phonetically]

06:35:14.2

**CM**

06:35:14.4

(correct).

06:35:15.4

**CM**

06:35:15.5

that's some name huh?

06:35:17.8

**CAPT**

06:35:17.4

jawaakin. [typed phonetically]

06:35:18.5

**CAPT**

06:35:18.4

(they're twins).

06:35:19.6

**CM**

06:35:19.9

J-O-A-Q-U-I-N.

06:35:22.8

**CAPT**

06:35:21.9

J-O-A-Q-U-I-N.

06:35:31.2

**CAPT**

06:35:40.7

just \* \* .

06:35:42.4

**CM**

06:35:42.5

yessir.

06:35:43.2

**?**

06:35:50.0

\* \* \*. [pronounced in a falsetto voice]

06:35:52.1

**CM**

06:35:59.0

should I be scared?

06:36:00.8

## Secondary and Electronic Communications



## Primary Communications

**CM**

06:36:04.3 yeah I- I- I would- umm- we'll (monitor) the E-T-A and \* \* \*. I mean I-  
06:36:30.8 we haven't stepped off that extra distance yet. \* \* \*.

**CM**

06:36:33.0 \* \* \*.  
06:36:35.8

**CAPT?**

06:36:36.0 \* \* \*.  
06:36:38.8

**CM**

06:36:48.3 \* \* I updated the speeds so we'll leave it at that.  
06:36:53.0

**CAPT**

06:36:52.9 yea- I didn't know (about it). when you work it backwards \* \* \*.  
06:36:55.5

**CM**

06:36:55.4 yeah- I...  
06:36:56.2

**CAPT**

06:36:55.9 \* \* \*.  
06:36:57.1

**CM**

06:36:57.2 (what is this / yes yes). and uh nineteen (six regardless of timing) \*  
06:37:42.6 (what we're gunna do) \* \* between \* A-M. It's not that big a difference in  
distance- maybe we will get there earlier. ten o'clock. maybe closer to  
(eight) \* \*. \* \* that's \* ten to twelve. zero six. that's the zero six arrival  
we're already past her.

**CAPT**

06:37:43.5 but that's just this program. I mean...  
06:37:45.5

**CM**

06:37:44.9 I understand.  
06:37:46.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:37:46.0  
06:37:50.3

...found this not to be so accurate sometimes.

**CAPT**

06:37:53.0  
06:37:58.1

\* \* as far as distance– the weather \* (so much).

**CM**

06:37:58.4  
06:38:02.3

I mean that's a good starting point \* \* that's for sure.

**CAPT**

06:38:01.7  
06:38:02.1

yup.

**CM**

06:38:02.2  
06:38:04.1

we're working between those two \* \* .

**CAPT**

06:38:03.9  
06:38:04.4

sure.

**CM**

06:38:04.9  
06:38:10.6

\* \* o'clock halfway \* \* \* .

**CAPT?**

06:38:12.9  
06:38:13.8

[sound of human whistle]

**CM**

06:38:14.2  
06:38:16.0

yeah I'm doing it now.

**CAPT**

06:38:17.7  
06:38:19.6

how long (do/to) \* right now? \* \* .

**CM**

06:38:19.6  
06:38:27.9

but at least that will bring us down a little further south \* \* intersection \*  
\* that's a good speed to use.

## Secondary and Electronic Communications

**Primary Communications**

**CAPT**  
06:38:28.3  
06:38:32.4

\* \* \* wanna bump that up?

**CM**  
06:38:31.9  
06:38:34.4

no leave it \*...

**CAPT**  
06:38:33.0  
06:38:35.5

yeah that's it. \* \* .

**CM**  
06:38:33.4  
06:38:38.5

I think right now that's a good speed to predict. \* \* \*...

**CAPT**  
06:38:36.2  
06:38:38.5

I agree I agree.

**CAPT**  
06:38:38.8  
06:38:39.7

I agree.

**CM**  
06:38:39.8  
06:38:44.5

\* \* a little and uhhh...

**CAPT**  
06:38:53.1  
06:38:54.9

[sound of throat being cleared]

**CM**  
06:38:56.9  
06:39:01.1

I think we're gettin' that every three hours now instead of six.

**Secondary and Electronic Communications**

**M1/M2**  
06:38:30.0  
06:38:47.2

[sound of SAT-C terminal receiving incoming message.]

**M1/M2**  
06:38:47.0  
06:39:29.1

[sound of SAT-C terminal printer printing.]

## Primary Communications

**CAPT**

06:39:03.5 (hey/now) check it out. I think it's good.  
06:39:06.1

**CM**

06:39:06.4 I think we did good.  
06:39:07.6

**CAPT**

06:39:09.1 why don't you walk it through.  
06:39:11.1

**CM**

06:39:11.1 well– well the difference is that triangle turned into a forty-five. this  
06:39:16.8 (distance / difference).

**CAPT**

06:39:16.9 (you) should check it out.  
06:39:18.2

**CM**

06:39:18.2 we're still– I– I– I can see (right) here.  
06:39:21.5

**CAPT**

06:39:20.9 yeah but watch (your numbers). how much down?  
06:39:25.2

**CM**

06:39:31.6 seven meters– six– seven meters– let's see.  
06:39:35.7

**CAPT**

06:39:35.9 no no no no. that's where your cursor is.  
06:39:38.2

**CM**

06:39:38.6 oh. hold on a sec. I was lookin' at the ship– put it on the ship. \* \* \* uhhh  
06:39:48.0 read it up here then– okay. \* \* five meters.

**CAPT**

06:39:47.4 it's (nothing).  
06:39:48.4

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:39:50.0 but do it again three more hours and see where we are.— run it up  
06:39:55.3 ahead.

**CAPT**

06:39:58.5 so run it up here on the back side of it one more time. boom.  
06:40:03.2

**CM**

06:40:04.6 it's uhhh \* \* \* (tonight) \* \* \*. it's definitely a lot better than \* \* .  
06:40:20.2

**CAPT**

06:40:20.4 absolutely.  
06:40:21.1

**CM**

06:40:21.2 without a doubt. and...  
06:40:25.5

**M1**

06:40:25.3 [sound similar to paper being torn.]  
06:40:27.8

**CM**

06:40:27.1 this is even more up to date.  
06:40:30.4

**CAPT**

06:40:30.2 good.  
06:40:30.7

**CM**

06:40:30.2 put this one in the \* \* .  
06:40:32.5

**CAPT**

06:40:32.0 alright one-four-zero now?  
06:40:34.1

**CM**

06:40:34.1 yes sir.  
06:40:35.3

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:40:35.4  
06:40:39.1

I'll put this on– this other chart here.

**CAPT**

06:40:39.6  
06:40:40.9

roger that.

**CM**

06:40:42.9  
06:40:45.2

what's on top on the magnetic?

**AB-1**

06:40:45.5  
06:40:47.0

one-four-two.

**CM**

06:40:46.4  
06:40:46.9

okay.

**CAPT**

06:40:56.1  
06:41:00.4

spell the weather system again. J-O-U...

**CM**

06:41:00.1  
06:41:02.0

yo-ha-keem [typed phonetically]

**CM**

06:41:01.6  
06:41:04.0

J-O-A?

**CAPT**

06:41:04.2  
06:41:04.8

\* \*.

**CM**

06:41:05.2  
06:41:08.3

Q-U-I-N.

**CAPT**

06:41:09.3  
06:41:09.9

(like) that?

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:41:010.0 yup. you know they– they couldn't give us Jimmy– James or– [sound of  
06:41:25.1 laugh] Erica. equal opportunity storm naming.

**CAPT**

06:41:26.1 yessiree. it is what it is.  
06:41:29.3

**CM**

06:41:28.4 okay. so I'm gunna update this little track here.  
06:41:32.3

**CAPT**

06:41:32.2 yup. update it as such.  
06:41:35.5

**CAPT**

06:41:52.7 [sound of yawn] oh look at that red sky over there. red in the morn'  
06:42:01.3 sailors take warning. that is bright.

**CM**

06:42:18.5 alright. waypoints.  
06:42:22.2

**CAPT**

06:42:20.7 I'll go back catch up with the chief let 'em know what's goin' on.  
06:42:23.7

**CM**

06:42:23.9 thank you.  
06:42:24.5

**CAPT**

06:42:24.5 and I'll be back up. \* \* \*.  
06:42:29.3

**ALL CHAN.**

06:42:29.3 [Area of non-pertinent conversation or no conversation.]  
06:55:27.0

**CAPT**

06:55:27.0 I just talked to the steward– about the prevailing weather.  
06:55:33.7

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:55:35.3

sir?

06:55:36.6

**CAPT**

06:55:37.5

umm I just spoke to the steward about the prevailing weather and the importance of securing the galley for the evening. in particular the plates. because they have a habit of just stacking the plates up there on that island. down there. and umm clear off the tables with all the condiments just in case you don't wake up with maple syrup and cayenne pepper mixed together on the deck. and stuff like that. cause we got @SA down there and he's on the ball you know how it is. boatswain poked his head in. doing some organizing down there and uh well the boatswain knows about the weather there too. okay? okay?— sure would be nice if we could have # one hundred and twenty R-P-M. you know? you heavy in thought over there chief mate?

06:56:57.0

**CM**

06:56:57.4

uh no captain I'm just now puttin' in uh— a new route.

06:57:02.2

**CAPT**

06:57:07.4

well back in the day we didn't have that stuff. throw that right over the side.

06:57:12.1

**CM**

06:57:12.6

I know but I— I like to look at the numbers and have everything line up and match up and—

06:57:17.3

**CAPT**

06:57:16.7

I agree— I agree. that's that type a personality you have.

06:57:19.2

**CM**

06:57:19.4

yeah I like to I like to have my little thing following the little purple line...

06:57:22.4

**CAPT**

06:57:22.9

yup.

06:57:23.5

## Secondary and Electronic Communications



## Primary Communications

**CM**

06:57:23.9 and my course to waypoint matching my course over ground.  
06:57:27.1

**CAPT**

06:57:28.3 yup.  
06:57:28.8

**CM**

06:57:28.8 and then the only– if it's not then you have to take another look.  
06:57:32.3

**CAPT**

06:57:32.3 ya.  
06:57:32.7

**CM**

06:57:32.9 you know so. I mean I understand what we're doing why and of course  
06:57:36.8 it could change.

**CAPT**

06:57:37.0 sure.  
06:57:37.9

**CM**

06:57:37.9 pretty quick and easy.  
06:57:39.9

**CM**

06:57:40.9 okay. now.  
06:57:44.9

**M1**

06:57:44.8 [sound of quick electronic chirp]  
06:57:45.3

**CM**

06:57:46.2 \* [sound of throat being cleared]  
06:57:47.2

**CAPT**

06:57:47.4 you will find that that's not the most user friendly. and that would be my  
06:57:58.0 recommendation. all I'm gonna say. leave it to the experts.

## Secondary and Electronic Communications

## Primary Communications

**CM?**

06:57:59.7

[sound of throat being cleared]

06:58:00.3

**CAPT**

06:58:02.0

all I need is a navigation calculator and I will make up the waypoint sheet— courses— rhumb line distances and then chart. (don't need none of) that fancy stuff. oh it's nice to have— don't get me wrong.

06:58:15.9

**CAPT**

06:58:21.7

a friendly reminder that you'll have a route to deal with.

06:58:26.7

**CM**

06:58:26.5

that's why I started... I wasn't altering an existing \*. I entered my own waypoints— I entered...

06:58:37.6

**CAPT**

06:58:32.1

[sound of laugh]

06:58:33.5

**CM**

06:58:33.3

... my own route so \* \*— I didn't do anything to mess with.

06:58:38.1

**CM**

06:59:27.8

J-O-A. [sound similar to a keypad punch but with no beep.]

06:59:33.2

**CM**

06:59:36.7

three letters is good enough.

06:59:39.8

**CAPT**

06:59:39.9

better put the Q in there. gotta make it \* \* \*.

06:59:47.5

**M1/M2**

06:59:44.2

[sound similar to hourly GPS alarm activating.]

06:59:51.6

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:59:52.9

\* \* \* diverse and...

06:59:57.6

**CM**

06:59:58.6

J-O-A-Q.

07:00:00.3

**CAPT**

07:00:00.7

there ya go. now everybody's happy.

07:00:04.1

**M1/M2**

07:00:15.8

[sound similar to two electronic key punches.]

07:00:19.8

**CM**

07:00:33.5

that's it— that's it. \* \* \*. enter \* space— S-I . (insert) \* \* . [during this time, a sound similar to multiple electronic keypad punches were heard.]

07:01:04.5

**M1**

07:01:06.1

[sound of quick ascending and descending tone scale electronic noise likely associated with one of the ship's GPS systems.]

07:01:08.1

**CM?**

07:01:06.7

there it is.

07:01:07.7

**CM**

07:01:08.4

\* \* \*. I'll get it @UNK.

07:01:11.6

**CM**

07:01:14.1

[CM sounds as though he is continuing to make short entries into what is likely the ship's GPS system.]

07:01:25.1

**M1**

07:01:25.1

[sound of quick ascending and descending tone scale electronic noise likely associated with one of the ship's GPS systems.]

07:01:26.2

**CM**

07:01:26.4

\* \* \* . bearing is one-three-one— course is one-four-zero. now if I were you I'd let the second mate do the (ticking off of) \* \* (half way) \* \* .

07:01:48.8

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:01:49.5  
07:01:52.5

\* \* miles for the day.

**CM**

07:01:53.4  
07:02:12.7

you can you can it's all here for her. \* \* there is now our new total to go  
uh nine twenty-four uh E-T-A \* \* \*.

**CAPT**

07:02:12.8  
07:02:15.1

(about half) as much.

**CM**

07:02:15.1  
07:02:19.1

yeah cause we're twenty point four knots right– right– right. we don't  
need that.

**CAPT**

07:02:19.0  
07:02:21.6

(not really) we're not that much off course.

**CM**

07:02:21.0  
07:02:24.1

no it isn't it isn't uh.

**CAPT**

07:02:22.8  
07:02:26.6

it's a good little diversion are you feelin' comfortable with that chief  
mate?

**CM**

07:02:26.0  
07:02:27.7

better. yes sir.

**CM**

07:02:28.3  
07:02:32.7

yeah like I said the– the other option is drastic

**CAPT**

07:02:32.9  
07:02:34.9

ya. it doesn't warrant it.

**CM**

07:02:34.9  
07:02:36.7

and not for uh...

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:02:36.2  
07:02:41.3

you can't run...every single weather pattern.

**CM**

07:02:37.5  
07:02:39.6

not for a forty knot wind. yes.

**CAPT**

07:02:41.5  
07:02:45.5

now that would be the action for some guy that's never been anywhere else.

**CAPT**

07:02:46.7  
07:02:48.7

"oh my god– oh my god!" [CAPT sounded as though he was imitating a speaker with a frantic voice.]

**CAPT**

07:02:52.7  
07:02:57.1

(for now) we'll just sit on the bank and fish for trout.

**ALL CHAN.**

07:02:57.1  
07:11:54.7

[Area of non-pertinent conversation or no conversation.]

**CAPT**

07:11:54.7  
07:12:05.9

well needless to say we'll be watching the weather deteriorate today.  
write one paragraph down below. \* (watch) that.

**CM**

07:12:06.1  
07:12:28.4

yeah the (the the) second mate \* \* yeah the second mate (usually) \* \* \*.  
\* \* \* meeting us on the thirtieth. it's like \* \* \*.

**CAPT**

07:12:28.7  
07:12:36.7

it isn't Thursday– it's not Sunday– it's the thirtieth.– you'll never go wrong.

**CM**

07:12:36.4  
07:12:37.6

today.

**CAPT**

07:12:37.4  
07:12:39.7

the thirtieth.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:12:46.5  
07:12:49.6

the thirtieth will always be the thirtieth.

**CAPT**

07:13:03.7  
07:13:11.9

we'll be watching the wind and the uh swells. and uhhh...

**CM**

07:13:13.7  
07:13:18.8

looks like it's on the quarter now. it was on the beam now it's coming at us.

**CAPT**

07:13:25.9  
07:13:29.3

smaller now it's outta the northeast (it's) \* \* \*.

**CM**

07:13:31.0  
07:13:33.3

ahh I would say more easterly.

**CAPT**

07:13:38.1  
07:13:38.9

\* \*.

**CM**

07:13:39.2  
07:13:43.0

I would say its easy to see rolling away now.

**CAPT**

07:13:44.5  
07:13:44.8

yeah.

**CM**

07:13:45.1  
07:13:46.0

\* \* (shadow).

**CAPT**

07:13:45.9  
07:13:46.4

yeah.

**CM**

07:13:48.7  
07:13:51.7

\* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:13:51.6  
07:13:54.8

if our anemometer worked.

**CM**

07:13:55.2  
07:13:59.2

yeah we'd be able to \* \* .

**CAPT**

07:13:59.4  
07:14:01.5

be like \* old school.

**CM**

07:14:00.9  
07:14:08.5

it's- is- is- the- is the- is anybody played with it enough to know the number's good? just not...obviously the direction's not good. is that number any good?

**CAPT**

07:14:09.4  
07:14:11.1

I wouldn't trust it.

**CM**

07:14:11.0  
07:14:16.8

and they're- they're (not gunna) buy a new one for it.

**ALL CHAN.**

07:14:16.8  
07:18:56.6

[Area of non-pertinent conversation or no conversation.]

**CAPT**

07:18:56.6  
07:19:01.1

so I guess when you address the men today let 'em know we got some weather.

**CM**

07:19:01.1  
07:19:01.8

absolutely.

**CAPT**

07:19:02.0  
07:19:04.5

we have diverted slightly.

## Secondary and Electronic Communications

## Primary Communications

**CM**

07:19:04.5 first order of business.  
07:19:06.1

**CAPT**

07:19:06.6 and take a hard look at some of that cargo down there. delegate the  
07:19:17.2 men (to look at) the lashings as you deem necessary.

**CM**

07:19:17.6 my personal \* \* .  
07:19:19.9

**CAPT**

07:19:20.7 ten twenty is sanitary inspection.  
07:19:24.6

**CM**

07:19:23.9 it's very sanitary.  
07:19:25.4

**CM**

07:19:27.5 yeah– yeah I think this was first two ports in a row \* (storage/horse)  
07:19:55.7 trailers. (and) I– I told these guys \* \* \*. \* \* and the third port now– (it  
was). that kind of thing. you know what I mean we got forklifts–  
dumpsters– gear everywhere. it's all on B deck.

**CAPT**

07:19:56.2 nooo.  
07:19:56.9

**CM**

07:19:57.1 yeah.  
07:19:57.5

**CAPT**

07:19:58.9 you got enough lashings– (actual/extra) lashings on hand?  
07:20:03.4

**CM**

07:20:04.1 I mean I haven't looked at any lashing inventory or \* \* \* .  
07:20:13.3

## Secondary and Electronic Communications



## Primary Communications

**CM**

07:20:21.5 how many trailers are we gunna load? how many lashings (can/do) we  
07:20:39.6 need back? \* \* what's the layout of the buttons gunna be? \* \* what  
button's do we have? \* \*. I don't know.

**CAPT**

07:20:40.2 hopefully they outfit us (come/from) Tacoma. \* \* (whenever/wherever)  
07:20:46.2 we need it.

**CM**

07:20:46.0 oh \* \* the lashings (they gave us) hanging on the rails or at the sides  
07:20:55.8 too.

**CAPT**

07:20:52.9 yup.  
07:20:53.4

**CM**

07:21:17.4 those longshoremen are pretty good about handling (it/them).  
07:21:21.6

**CM**

07:21:23.8 [unintelligible mumbling about lashings.]  
07:21:33.1

**CAPT**

07:21:33.0 yup. makes all the difference.  
07:21:35.0

**CM**

07:21:36.4 \* \* \*.  
07:21:39.7

07:21:47.6 \* show a little bit of pride in their work. [CAPT and CM then began  
07:24:22.7 talking about the quality of work by longshoremen at ports around the  
United States and throughout the world. They then began a more  
specific conversation below about the lashings on the *El Faro*.]

**CM**

07:23:47.4 \* the foremen...  
07:23:49.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:23:49.4

yeah– no– no– that's right.

07:23:50.8

**CM**

07:23:50.4

second deck– that's right.

07:23:51.8

**CAPT**

07:23:52.2

\* \* \* .

07:23:53.1

**CM**

07:23:52.9

he was doing it wrong and I was trying to help. \* \* \* .

07:23:58.4

**CAPT**

07:23:59.8

go right to the foreman– cut out the middle man– I do it all the time. that  
guy right there.

07:24:07.9

**CAPT**

07:24:11.8

just document everything– I send it in with all the paperwork. (in port/  
important) \* \* \* .

07:24:14.6

**CAPT**

07:24:17.6

\* \* \* \* . [being spoken over by CM.]

07:24:19.2

**CM**

07:24:17.8

\* \* they we're doin' \* \* some of the things \* \* not (route) through the D-  
ring in the back. \* \* the side of it. yeah dead end it and wrap the chain–  
the grab hook goes on the chain. that's it. one lashing from here to the  
Roloc box and another lashing from the \* to the deck. same theory as \* .  
two independent chain binders.

07:24:45.5

**CAPT**

07:24:44.4

yeah \* \* . [CAPT trying to speak over CM.]

07:24:46.9

**CM**

07:24:47.0

yeah that's what they do.

07:24:48.4

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:24:48.3  
07:24:50.0

I know– I know– I know [spoken with a raised voice.]

**CM**

07:24:51.6  
07:25:01.1

it's– it's– they don't they don't do the lashing the way it oughta be done.

**CAPT**

07:25:02.0  
07:25:05.8

alright let me go down and check up on everybody.

**CM**

07:25:04.9  
07:25:05.5

yeah. yeah.

**ALL CHAN.**

07:25:05.5  
07:32:03.2

[Area of non-pertinent conversation or no conversation.]

## Secondary and Electronic Communications

**M1/M2**

07:32:03.2  
07:32:06.5

[sound of electric telephone ringing.]

**M1/M2**

07:32:09.7  
07:32:12.3

[sound of electric telephone ringing.]

**CM-ET**

07:32:15.8  
07:32:16.8

go ahead chief mate.

**CM-ET**

07:32:17.2  
07:32:19.1

hello @2AE.

**CM-ET**

07:32:20.4  
07:32:22.9

one thirteen point two.

**CM-ET**

07:32:23.5  
07:32:27.4

eighty-two I got eighty-four. @2AE– listen– heavy weather tonight. secure your personal belongings.

## Primary Communications

**ALL CHAN.**

07:32:27.4 [Area of non-pertinent conversation or no conversation.]  
07:41:43.8

**CM**

07:41:43.8 uh– we lost some speed.  
07:41:45.7

**CM**

07:42:02.4 the one that says six thirty is the latest.  
07:42:05.1

**AB-1**

07:42:04.7 \*. yeah six thirty for arrival– yeah arrival.  
07:42:08.3

**CM**

07:42:08.9 yeah but it was saying four thirty an hour ago when we were making  
07:42:15.2 twenty knots and now were not.

**AB-1**

07:42:15.3 might slow it down even more when \* \* .  
07:42:17.8

**CM**

07:42:18.0 yeah (lookin' at) \* \* \* .  
07:42:20.7

**CM**

07:42:23.3 it is what it is. get there when we get there. \* \* .  
07:42:27.6

**ALL CHAN.**

07:42:27.6 [Area of non-pertinent conversation or no conversation.]  
07:44:12.5

**CM**

07:44:12.5 did you see any of this Joaquin stuff when you got off watch or \* \* ?  
07:44:19.4

**CM**

07:44:19.5 you hear about the storm?  
07:44:21.5

## Secondary and Electronic Communications

## Primary Communications

**3M**

07:44:21.2 yes– yes– I'm aware of it. caught a little bit of it on the news. (heard) it's  
07:44:29.6 gunna be a hurricane tomorrow or later today according to the Weather Channel.

**CM**

07:44:27.6 so it's– it's– really moving farther south and west than it was predicted  
07:44:36.2 uh earlier.

**3M**

07:44:35.3 right.  
07:44:36.2

**CM**

07:44:36.1 and uh we are diverting so we're going one-four-zero now.  
07:44:41.6

**3M**

07:44:41.2 okay one-four-zero \* no traffic.  
07:44:45.0

**CM**

07:44:43.9 that's right. probably pass abeam there. but there is an extra note here  
07:44:51.8 for you to hand over to the second mate please.

**3M**

07:44:51.4 okay.  
07:44:52.5

**CM**

07:44:55.6 I made a route. number fourteen. we're on it. right here.  
07:45:01.4

**3M**

07:45:01.4 number fourteen. roger that.  
07:45:02.9

**CM**

07:45:02.7 it's laid out here. waypoint A– waypoint B and then \* \* \* .  
07:45:11.4

## Secondary and Electronic Communications

## Primary Communications

**3M**

07:45:11.4  
07:45:14.3

okay so that's \* \* \*.

**CM**

07:45:12.3  
07:45:15.5

that distance to go is based on the new route.

**3M**

07:45:15.2  
07:45:15.7

okay.

**CM**

07:45:15.6  
07:45:20.1

okay. that'll be \* \*

**CM**

07:45:19.1  
07:45:22.4

\* \* here's your D-R \* \*.

**CM**

07:45:21.1  
07:45:26.7

ten miles off Elbow [Elbow Cay] and ten miles off San Salvador Island.

**3M**

07:45:25.7  
07:45:26.8

got it.

**CM**

07:45:26.5  
07:45:34.9

that's just give us a little more (you know) from the B-V-S give us a little more (out of \* depth).

**3M**

07:45:35.0  
07:45:36.1

got it.

**CM**

07:45:36.5  
07:45:38.8

see what you can do.

**3M**

07:45:38.8  
07:45:39.5

alright.

## Secondary and Electronic Communications

## Primary Communications

**3M**

07:45:39.4 so it's all been (assigned/signed) by the captain.  
07:45:43.0

**CM**

07:45:43.0 umm. yeah– yeah– yeah.  
07:45:44.8

**3M**

07:45:45.2 yeah so...  
07:45:45.9

**CM**

07:45:46.2 from when it was up here last night but now it's down here. so and that  
07:46:03.3 was a direct hit. I mean– I mean our timing was perfect to the eye. so  
we said let's do this and then we checked again. now worse comes to  
worse we can duck in.

**3M**

07:45:56.1 yeah.  
07:45:56.6

**3M**

07:46:02.9 yeah.  
07:46:03.4

**CM**

07:46:05.0 \* \* \* I mean Old Bahama Channel is not I mean northwest Providence  
07:46:18.2 isn't gunna do much because you have to come back out right at the  
wrong time so what's the point– I mean if you're good (at diverting/I'd  
rather be) in Old Bahama Channel.

**3M**

07:46:16.6 that's pretty extreme.  
07:46:18.0

**CM**

07:46:18.7 \* \* \* divert for this. so here we are.  
07:46:25.7

**3M**

07:46:26.2 okay well \* \* \*.  
07:46:29.2

## Secondary and Electronic Communications

## Primary Communications

**CM**

07:46:29.0 yeah I mean you can't go up around it. that's the that's the (bad) \* \* \* .  
07:46:34.2

**CM**

07:46:35.3 (unless) it's gunna turn \* \* .  
07:46:38.4

**?**

07:46:39.0 yeah \* \* .  
07:46:40.8

**CM**

07:46:41.1 secure for sea. heavy weather. get your get your legs on.  
07:46:46.2

**M1**

07:46:48.4 [unintelligible background conversation taking place.]  
07:46:54.0

**CM**

07:46:54.4 so that's it.  
07:46:56.1

**?**

07:46:56.8 did I miss something in the log?  
07:46:58.2

**3M**

07:46:57.9 I still gotta catch up on the weather reports.  
07:47:00.1

**CM**

07:47:03.8 tell the second mate she's gotta put something in there about customs  
07:47:13.4 and border patrol boarding in the visitor's log \* \* \* A-B \* \* .

**3M**

07:47:13.8 \* \* .  
07:47:15.7

**CM**

07:47:15.9 that's why I mentioned it.  
07:47:17.0

## Secondary and Electronic Communications



## Primary Communications

**ALL CHAN.**

07:47:17.0

08:15:56.8

[Area of non-pertinent conversation or no conversation.]

**3M**

08:15:56.8

08:16:00.1

we're gunna get slammed tonight.

**3M**

08:16:03.4

08:16:13.5

when I was on the *El Morro* we've (been in/ didn't get) bad weather bad weather— uh— pretty routinely. last couple of years just almost no— no issues.

**AB-3**

08:16:13.9

08:16:18.1

yeah I was thinkin' that all through August— like it's been too quiet this season.

**3M**

08:16:19.7

08:16:23.0

been that way last year and the year before.

**AB-3**

08:16:24.4

08:16:28.0

out in the Pacific it's one after the other. a daisy chain of 'em.

**3M**

08:16:27.2

08:16:28.2

yup.

**AB-3**

08:16:30.6

08:16:34.8

one in Taiwan said it was hittin' a hundred and eighty miles an hour— it's— Jesus.

**ALL CHAN.**

08:16:34.8

08:30:15.7

[Area of non-pertinent conversation or no conversation.]

**CAPT**

08:30:15.7

08:30:17.5

how are you?

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

08:30:17.6

I'm alright.

08:30:18.6

**CAPT**

08:31:15.3

so we got a little weather comin' in. I'm sure you heard.

08:31:18.5

**AB-3**

08:31:18.4

\* \* \*

08:31:20.3

**CAPT**

08:31:20.4

yeah it uh morphed it's ugly head between umm between the time we left and uh this morning when we woke up.

08:31:27.3

**AB-3**

08:31:27.3

yeah that's what they said last night too– expect in the next twenty-four hours.

08:31:32.0

**CAPT**

08:31:33.1

tough to plan when you don't know but we made a little diversion here we're gunna– we're gunna be further south of the eye. we'll be about sixty miles south of the eye. it should be fine. we are gunna be fine– not should be– we are gunna be fine.

08:31:50.3

**M1**

08:35:57.4

SUMMARIZED AREA

08:37:06.6

[CAPT reaffirmed to the 3M upon relief of his watch that he wanted the 2M to make an entry in the visitor's log about Customs and Border Patrol visiting the vessel.]

**ALL CHAN.**

08:37:06.6

[Area of non-pertinent conversation or no conversation.]

08:47:58.5

**M1**

08:47:58.5

[sound similar to NAVTEX printer printing. There was no sound of an incoming message alarm prior to the printer activating.]

08:51:34.7

**ALL CHAN.**

08:51:34.7

[Area of non-pertinent conversation or no conversation.]

08:53:12.6

## Secondary and Electronic Communications

## Primary Communications

**3M**

08:53:12.6

yeah one of the reefers didn't get plugged in.

08:53:15.3

**AB-3**

08:53:20.5

what was the chief doin' down there last night? was that his? did he do that?

08:53:25.7

**3M**

08:53:25.4

(he) showed up after the fact. you know these you know wha- what's changed is. I mean granted obviously I missed something but man I could not # keep up I had @GUDE helping me. he couldn't keep up. I was helping him plug in and I didn't have time to get all the temps down and the ramp came off everything just happened in quick succession for a couple of reasons- I guess five hold didn't get finished up and until the last minute so all of the reefers that would have been already in and plugged in there weren't there they all just came on at the end. yeah we just we had this perfect storm of shii- of # problems. we- we used to have a port mate and now we don't. we have a guy from PORTUS- a longshoreman- now we don't.

08:54:13.4

**AB-3**

08:54:13.1

yeah I remember when I first came here he was...

08:54:15.7

**3M**

08:54:15.7

then we then we also lost our electrician and this guy wants to basically wash his hands of second deck and just have it all handed to him. \* \* @AELEC would always be that system of check where he would come down and make sure that every reefer was good and then he would call up- you'd hear him on the radio- "okay this- I got this many reefers and they're all good." that doesn't happen anymore. I mean...

08:54:43.3

**AB-3**

08:54:45.8

yeah the first day I was watchin' him just amble along- I was like "oh god" after @AELEC this is gunna be a disappointment. [sound of laughter]

08:54:55.4

## Secondary and Electronic Communications

## Primary Communications

**3M**

08:54:57.1 yeah he's slow so he doesn't have time to # work– well– to do anything  
08:55:19.4 down there so he doesn't think it's his responsibility and no one has  
told him otherwise. so. he'll sit up there under– sit down up there and  
say they're too busy to come down you know like most of the #– I go up  
there– I make rounds on main deck and most of the time they ain't doin'  
#.

**AB-3**

08:55:19.7 oh your average S-I-U electrician wouldn't even come on a ship like  
08:55:28.3 this– it's too much work for 'em.

**AB-3**

08:55:37.1 I mean they'll do the short little plugins and everything but they're not  
08:55:51.0 gunna work their way through jungles of lashing chains and dirt (to get  
to) a plug somewhere.

**3M**

08:55:51.7 it's # insane down there. the other thing is @EX2M when we were  
08:56:10.5 northbound he would go set all the plugs up. well that's not happening  
anymore either there's just # extension cords everywhere– it's a mess  
down there. it– its– everything is falling apart.

**3M**

08:56:16.7 and yeah I'm # up but I'm doin' the best I can and– I'm not the part of  
08:56:25.2 the equation that's changed. I'm doin' what I've always done but it's just  
not enough anymore.

**3M**

08:56:31.7 \* \* the mate said "oh well next time call for help." alright...  
08:56:34.9

**AB-3**

08:56:40.8 all the extra people that are supposed to be doin' it are all gone ashore.  
08:56:44.5

**AB-3**

08:57:02.0 like they were sayin' in Alaska you're gunna get even more down there  
08:57:05.7 it's like (ah god).

**AB-3**

08:57:08.2 that'll keep you warm– hustlin' around.  
08:57:11.6

## Secondary and Electronic Communications

## Primary Communications

**3M**

08:57:12.7 I don't mind hustlin' I don't mind running cords I just- I- I can only do so  
08:57:19.7 much and then that's it that's all I can do.

**3M**

08:57:25.1 it is it's just miserable and then it's dark and you can't #- where they  
08:58:08.1 have the receptacles are soon as they park the truck underneath the  
light the receptacles are in total darkness. all the extension cords.  
there's like a little a little nub that fits into a slot and that's how you  
know which way- it's a round plug you know- so it can go in there #  
four different- who knows how to line that thing up without the nub. and  
the nubs are all # knocked off. so you can't see you're lookin' at it and  
basically you have three small prongs and one large prong and when  
you look at the socket that they go in to they all look pretty much the  
same. good god. uuughhh. [during this time AB-3 occasionally stated-  
"yeah"- "yes" etc. while 3M was speaking.]

**AB-3**

08:58:07.2 you have one of those headband headlights?  
08:58:10.0

**3M**

08:58:10.0 I do but I gotta brin- I gotta put it on my uhh \* \*.  
08:58:12.1

**AB-3**

08:58:15.5 takes a lot of a lot of grief outta that (#/shift) [AB-3 spoke over the end  
08:58:19.4 of 3M's above comment.]

**3M**

08:58:19.3 it sure does.  
08:58:20.3

**AB-3**

08:58:44.5 they get the hydraulic hose fixed?  
08:58:46.4

**3M**

08:58:46.4 yeah- they busted as the door closed \* \* had to replace the hose mop  
08:59:04.4 up all the- oil that was spilled.

## Secondary and Electronic Communications

## Primary Communications

**3M**

08:59:17.8 @2M has managed to avoid it's not her fault it's just the way the  
08:59:34.7 schedule works. she's gettin' she gets very little of the reefer load. Must  
have had forty-two reefers down there– I plugged in thirty of them  
personally. over thirty.

**AB-3**

08:59:36.1 well– I guess the way the company's \* \* \* extra GUDEies [pronounced  
08:59:42.0 “goodies”, referring to extra GUDE workers] just for that. [hourly GPS  
alarm began activating and the AB-3 words became unintelligible.]

**ALL CHAN.**

08:59:42.0 [Area of non-pertinent conversation or no conversation.]  
09:05:32.5

**3M**

09:05:32.5 \* don't think I could be a captain here # (rules/lose) my #.  
09:05:36.7

**AB-3**

09:05:42.4 \* \* \* chief mate. go to their rooms and play video games.  
09:05:50.8

**3M**

09:05:51.1 right? this guy's got it this guy's got it figured out.  
09:05:54.8

**AB-3**

09:06:14.5 I tell ya what– I mean– the reason I came back here is like– this is as  
09:07:18.7 far as crew wise I mean other than the little– on the contract readers  
(and) it's– it's one of the better ones I've seen in a long long time. you  
wouldn't believe the # # that goes on on these things ya know it's– it's  
just ridiculous. I mean there is nothing else to do so all it is– is a back  
stabbing drama you know and it's aww god I mean it's– I've always had  
the bad luck of all these really \* I mean I mean I like being around these  
crazy # eccentrics but I mean I've been with some real sickos man– I  
mean some real # up people man it's like ahh god. this ship is actually–  
I was tellin' the new chief mate when he first came on here I was like # I  
like it on here. this is just a breath of fresh air from what I'm used to.  
[during this time, 3M stated "yeah", "yeah", and "yeah".]

## Secondary and Electronic Communications

## Primary Communications

## Secondary and Electronic Communications

**ALL CHAN.**

09:07:18.7

09:20:46.7

[Area of non-pertinent conversation or no conversation.]

**3M**

09:20:46.7

09:20:51.4

barometer is rising.

**?**

09:20:56.6

09:20:58.6

\* \* \*

**CAPT**

09:20:59.9

09:21:05.8

man every time I see with that \* \* (there's) a new guy on deck look at him squared away.

**CAPT**

09:21:06.3

09:21:09.8

and this...this is the most squared away watch on the ship.

**AB-3**

09:21:09.4

09:21:09.6

yep.

**CAPT**

09:21:10.9

09:21:12.0

like a \*

**CAPT**

09:21:12.2

09:21:14.4

what's this silly thing tellin' us?

**3M**

09:21:14.7

09:21:24.2

showing uh the (wind) warning (and all) that stuff.

**CAPT**

09:21:34.2

09:21:38.5

well we'll just- I'd recommend start logging that weather.

**3M**

09:21:38.7

09:21:40.5

yeah every three hours.

## Primary Communications

**CAPT**

09:21:40.4 we can see we can see when the wind veers and starts to back and  
09:21:49.8 then veers and wants to curve around where we \* \*.

**CAPT**

09:21:50.2 I know I know I agree.  
09:21:53.8

**3M**

09:21:50.4 (the hurricane) would be great  
09:21:52.2

**CAPT**

09:21:55.6 I agree.  
09:21:56.3

**3M**

09:22:05.4 we're goin into it.  
09:22:06.6

**CAPT?**

09:22:06.5 we're goin into the storm.  
09:22:08.8

**CAPT**

09:22:12.0 I know it's runnin' \* \*  
09:22:13.8

**CAPT**

09:22:14.8 I wouldn't have it any other way.  
09:22:17.1

**3M**

09:22:17.4 and that uhh... C-B-R-D [Chemical Biological Radiological Defense]  
09:22:26.1 and damage control like a military thing it's...

**CAPT**

09:22:26.1 [sound of cough]  
09:22:26.6

## Secondary and Electronic Communications



## Primary Communications

**3M**

09:22:27.9 ...must have confidence in your vessel's ability to sustain reasonable  
09:22:36.9 damage \* \* and we can get damage and still continue to operate.  
[Sounded as though 3M was either reading or repeating a statement  
from memory.]

**CAPT**

09:22:36.5 yup.  
09:22:37.2

**3M**

09:22:37.1 and it's like okay. [sound of laughter]  
09:22:39.7

**3M**

09:22:41.2 of course my favorite is the one where you– where you – tracking the  
09:23:06.6 uh the radiation dose of your crew and uh rotating them out and  
continuing to fight on even though you know you've received a lethal  
dose and you're gunna be dead in twelve hours.

**CAPT**

09:23:04.7 yeah.  
09:23:05.1

**AB-3**

09:23:07.9 works for Russian submarine crews.  
09:23:10.3

**3M**

09:23:10.6 that's it  
09:23:11.5

**3M**

09:23:11.9 carry on.  
09:23:13.0

**CAPT**

09:23:14.9 I mean when we went through Erika [Reference to either Hurricane or  
09:23:21.8 Tropical Storm Erika, unclear which storm specifically] this last \* that's  
the first real– real storm I've been on with this ship.

## Secondary and Electronic Communications

## Primary Communications

**3M**

09:23:21.9  
09:23:22.6

yeah.

**CAPT**

09:23:23.2  
09:23:25.3

ship's solid.

**CAPT**

09:23:27.0  
09:23:29.7

there was no shortage of swell running there.

**3M**

09:23:30.8  
09:23:45.4

this ship is solid it's just all the all the associated bits and pieces the bits and pieces. the hull itself is fine— the plant no problem. it's all the # that shakes and breaks loose.

**CAPT**

09:23:47.5  
09:23:48.7

we'll see that swell.

**3M?**

09:23:48.3  
09:23:49.7

where the water goes

**CAPT**

09:23:50.0  
09:23:52.4

significant increase.

**CAPT**

09:23:55.2  
09:24:09.7

just gotta keep the speed up so we get goin' down. and who knows maybe this low will just stall— stall a little bit. just a little bit just enough for us to duck underneath.

**3M**

09:24:11.7  
09:24:14.4

you know. if not then it's...

**3M?**

09:24:16.2  
09:24:18.7

we're (pretty good) we're gunna make it we're gunna make it.

## Secondary and Electronic Communications

## Primary Communications

**3M**

09:24:23.1  
09:24:27.9

(I'm very positive/it's very plausible). (been there).

**CAPT**

09:24:27.8  
09:24:48.7

ya go figure– right? I– I go to bed at midnight up in the morning and I had I just had the sneaking suspicion and I wrote it there too– monitor Joaquin or Joaquin's track and sure enough– I had that feeling.

**3M**

09:24:51.6  
09:24:53.8

\* \* (knows).

**CAPT**

09:24:53.9  
09:24:59.5

dude I'll tell you it was just festering– ya know– just– those are worst kind because they're not committed.

**CAPT**

09:25:03.5  
09:25:09.4

then if you pull that up and look at the bigger picture and look at the previous front that came off the coast.

**3M**

09:25:12.9  
09:25:16.8

\* \* \*.

**CAPT**

09:25:16.4  
09:25:44.0

that's your five-hundred– that's your five-hundred line and that was a day or so ago and that was down here. this front that's comin' off the coast now. pull that five-hundred up and that's what gave all the momentum. that low and now it's startin' to churn. if there was nothing comin' off the east coast it just woulda stayed.

**CAPT**

09:25:49.4  
09:25:51.6

it is what it is.

**CAPT**

09:25:52.4  
09:26:02.3

[unintelligible CAPT speaking briefly during a loud background noise.]

**3M?**

09:26:03.2  
09:26:06.4

\* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

09:26:06.8 (it normally falls out). [possibly in reference to a loud noise heard just  
09:26:08.9 before.]

**3M**

09:26:15.0 (we used to have/we're used to havin') those.  
09:26:17.2

**3M**

09:26:19.1 \* \* continuing to max out \* \*. [a sound similar to heavy grinding  
09:26:22.7 obscured much of the words in this area of the transcript.]

**CAPT**

09:26:23.0 yup.  
09:26:23.6

**CAPT**

09:26:30.5 the worst storm I was ever in was crossing the Atlantic.  
09:26:34.9

**CAPT**

09:26:37.8 horrendous seas. horrendous.  
09:26:41.7

**3M**

09:26:41.7 especially all the way up forward.  
09:26:43.5

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

09:26:43.7

09:27:53.0

yeah. up front. instead of gettin' it off the bow– the period of the waves were such that I could I could ride the waves were comin' this way I could ride this way. so we were just comin' up then down then down you'd roll a little bit into the trough. okay. so there was nothing there was no putting it off of the bow then you go up and you'd come down and you'd crash \* \* like that and all your cargo would break loose. but we had only thirteen cars that were damaged. and that's because they were– used vehicles don't have those tabs on the stern where they can hook those cross straps in around them so they do 'em by the wheels and the front wheels on the vehicles that didn't– lock they got movin' around those wheels would turn so you got slack a little bit. those wheels would move. and just bump the car next to it. so for two days we were in that #. and engineers would– cleanin' the fuel the um fuel strainers every three hours. [during the time CAPT was speaking, 3M was heard saying "yeah"– "yes"– "right" etc.]

**3M**

09:27:52.1

09:27:56.1

I was on the bridge and \* \* (watch) \* on the bottom of the tank.

**CAPT**

09:27:55.5

09:27:56.2

yup.

**CAPT**

09:27:56.1

09:28:17.8

everything (now's stuck) up all your– all your sediments now getting suspended in your in your bunkers. and uhh you had a man on the wheel your only doin' six knots all we can do. one-hundred and two knots– wind– force– twelve. \*.

**CAPT**

09:28:22.3

09:29:00.5

it was like that it was like that for a solid twenty-four to thirty-six hours and then there was a period where it was like this. alright. (I # you not). This– this for a day this for a couple of days this was for a solid six to ten hours. it was bad. it was bad. we had a gust of wind registered at a hundred and two knots. I took pictures of it– sent it in to the office. \* \* damaged cargo report. it was rough. it was the roughest storm I had ever been in– ever.

## Secondary and Electronic Communications

## Primary Communications

**3M**

09:29:02.6  
09:29:51.2  
yeah the weirdest the scariest thing we ever saw was the \* \* you're a lot closer to the water on this ship. \* \* low to the \* \*. \* \* above the waterline. there was probably \* \*. we we're up there. the captain was up there. \* \* \*. we got down into a trough and we saw that # white line that's breaking at night. \* \* you only see that white the breaking down (in the rain) \* \* \* it wasn't like that routinely \* \* \*.

**CAPT**

09:29:50.4  
09:30:01.5  
we had that rogue wave on every like seventh or eighth wave in a period– when we got into it everything # everything I mean the bridge– all hell broke loose.

**CAPT**

09:30:02.1  
09:30:06.3  
\* \* the # # just \* \* \*.

**3M**

09:30:06.0  
09:30:08.2  
it was it was a mess.

**CAPT**

09:30:06.3  
09:30:09.5  
\* # cereal everywhere.

**3M**

09:30:08.9  
09:30:37.2  
and then like you said the pounding right? the faceplates off the # radio. you can imagine that. \* \* before this thing you'd say yeah right that's # # how does how does that happen how do the knobs get blown off. it happened. the faceplate. maybe it was– maybe it was one of these or something it had # blown off the front of the \* \* \*.

**CAPT**

09:30:35.2  
09:30:48.8  
unfortunately we didn't tell 'em about that. and that's we're tryin' \* \* \*. but I think (we/we'll) duck down south enough (and it) speeds up. you gunna read those @AB-3?

**AB-3**

09:30:48.0  
09:30:49.0  
oh yeah.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

09:30:48.5

alright. yeah go right ahead. sorry.

09:30:51.8

**3M**

09:30:56.0

when's our next uh– I know I should know this but when's our next B-V-S update?

09:31:00.4

**CAPT**

09:31:01.8

umm– well they're doin' some maintenance on it on October seventh. \*

09:31:11.1

\* whatever they issue \*.

**3M**

09:31:11.0

I just mean like (what are) the hours \* \* every six hours or \* \*.

09:31:17.0

**CAPT**

09:31:17.6

what was that one?

09:31:18.7

**3M**

09:31:20.6

uh I think he...

09:31:22.6

**CAPT**

09:31:21.8

(set) that on the six.

09:31:23.5

**3M**

09:31:23.0

right. so what are we lookin' at the days right?

09:31:25.9

**CAPT**

09:31:25.5

yeah.

09:31:26.0

**3M**

09:31:27.4

oh-nine-thirty zero zero zero G-M-T for that one. so \* \* \* (oh-four) local

09:31:46.0

\* \* \*. [some unintelligible speaking related to times– a sound similar to heavy grinding obscured the audio throughout many portions of this area.]

## Secondary and Electronic Communications

## Primary Communications

**CAPT?**

09:31:48.8  
09:31:50.5

\* \* six

**3M**

09:31:50.8  
09:31:56.3

every six hours \* \* another one at ten. \* \* \*.

**3M**

09:31:58.1  
09:32:00.6

\* \* \*.

**CAPT**

09:32:01.1  
09:32:03.4

yup that's always favorable.

**3M**

09:32:03.6  
09:32:07.6

oh hey— one more thing I've been meaning to point out.

**CAPT**

09:32:06.7  
09:32:07.4

sure.

**3M**

09:32:12.8  
09:32:40.2

this is new where a lot of our NAVTEX messages \* \* are alright \*  
supposed to be \* \* I don't know what's happening with that if it's on the  
sending end or the receiving end but this is something I haven't seen \* I  
notice this \* \* \* gettin' a lot \* \* just sayin'.

**CAPT**

09:32:40.4  
09:32:46.0

it's just uh it's just uh transmitting \* it's just sayin' \* \*.

**3M**

09:32:45.7  
09:32:46.8

yeah.

**3M**

09:32:48.3  
09:32:55.8

yeah \* \* \* alright. \* \* \*.

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

09:32:55.9

mhmm.

09:32:56.5

**3M**

09:32:56.9

but usually \* \* \* .

09:33:04.3

**CAPT**

09:33:04.2

yup. thanks.

09:33:05.6

**CAPT?**

09:33:41.2

alright. \*

09:33:43.5

**AB-3**

09:33:59.1

got another one comin' down you know a point to starboard.

09:34:03.0

**3M**

09:34:02.6

point to starboard. [spoken as if during a yawn]

09:34:04.1

**3M**

09:34:08.0

yeah. \* \* off to starboard (there's nothing to look at).

09:34:13.4

**AB-3**

09:34:14.5

(naw) I figured it was just (stiffenin' breeze).

09:34:18.3

**3M**

09:34:19.9

yeah \* \* . I'm worried that team Poland is not prepared for this– the weather.

09:34:27.7

**3M**

09:34:28.5

pipes they got big pipes– just– propped up laying against the bulkhead.

09:34:33.6

**AB-3**

09:34:33.9

yeah (I think) those shipyard guys– oxygen bottles just rollin' around everywhere.

09:34:40.6

## Secondary and Electronic Communications

## Primary Communications

**3M**

09:34:46.9 they do just kind of do their welding and they kinda do their yard work  
09:35:01.3 and they– they expect the cleanup and all the securing and all their  
other # just to happen for them.

**AB-3**

09:34:59.1 yeah.  
09:34:59.8

**AB-3**

09:35:02.2 team Poland.  
09:35:03.9

**3M**

09:35:03.9 [sound of laughter] that was @SUP-2 that's the first time I heard  
09:35:14.5 someone call them that. that's pretty good.

**ALL CHAN.**

09:35:14.5 [Area of non-pertinent conversation or no conversation.]  
09:54:26.7

**M1/M2**

09:54:26.7 SUMMARIZED AREA  
09:59:37.5 [The 2M arrived to the bridge around 0954:26. There was a brief  
discussion between the 2M and 3M where Hurricane Joaquin was  
referenced but no specifics were discussed. The 3M said "we're long  
overdue for a good \* \* " and the second mate agreed– "yeah–  
definitely". The 3M commented "this is good warm up for Alaska."]

**ALL CHAN.**

09:59:37.5 [28.5 seconds of audio was determined to be missing between  
10:00:06.0 09:59:37.5 A.M. and 10:00:06.0 A.M. on September 30, 2015.]

**ALL CHAN.**

10:00:06.0 [Area of non-pertinent conversation or no conversation.]  
10:35:06.4

## Secondary and Electronic Communications

**M1/M2**

10:35:06.4 [sound of SAT-C terminal receiving incoming  
10:35:24.0 message.]

**M1/M2**

10:35:23.9 [sound of SAT-C terminal printer printing.]  
10:35:47.8

## Primary Communications

### M1/M2

10:35:48.7 [sound similar to paper being torn.]  
10:35:49.7

### ALL CHAN.

10:35:49.7 [Area of non-pertinent conversation or no conversation.]  
10:39:23.9

### AB-3

10:39:23.9 it's movin' away fast.  
10:39:25.9

### 3M

10:39:26.7 uh no it's not movin' away not yet. you'll see I'll show ya what's– I'll  
10:39:45.2 show you that whole time step forecast if you want. I mean we're going  
that way and it's (gunna go) that way and we're on a collision course  
with it– nearly– nearly.

### AB-3

10:39:47.2 what's its present wind speed?  
10:39:48.7

### 3M

10:39:49.5 fifty-five knots. at the center.  
10:39:53.2

### AB-3

10:39:50.7 (yeah).  
10:39:51.6

### 3M

10:39:59.0 we should see forty-five...  
10:40:01.0

### 3M

10:40:05.2 ...at the closest point– but tonight it's gunna be...  
10:40:09.9

### AB-3

10:40:12.7 two and half hours– I thought it was just– the beginning of the– the  
10:40:17.1 waves \* getting better.

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

10:40:37.5  
10:40:49.2

I wonder what the first people that– the first Spanish sailors– they survived– you know– the outer– eye passes right over 'em– they're all "it's over." [sound of chuckle]

**3M**

10:40:57.1  
10:41:07.4

I think back then [clears throat] maybe they didn't know the difference between a storm and a hurricane– a hurricane's just a really bad storm. (look at) all those ships that sunk. you know?

**AB-3**

10:41:07.2  
10:41:07.7

yeah.

**3M**

10:41:07.9  
10:41:13.2

in bad weather you know they probably "oh sunk in bad weather." probably a # hurricane.

**AB-3**

10:41:15.7  
10:41:28.0

yeah they said no one believed 'em– the survivors that tell'd 'em about it in Spain– they're like "yeah– yeah– sure– sure. we know what storms are." no you don't know what this storm's like or even what this is."

**3M**

10:41:32.0  
10:41:41.4

there must have been accounts of it the wind– you know (the) calm– then coming from the opposite direction. somewhere in a captain's log there must be a description of...

**AB-3**

10:41:42.2  
10:41:45.6

I mean that first one (you realize it or not).

**3M**

10:41:47.4  
10:41:49.5

\*.

**ALL CHAN.**

10:41:49.5  
10:56:51.1

[Area of non-pertinent conversation or no conversation.]

## Secondary and Electronic Communications

**M1/M2**

10:56:51.1  
10:57:01.9

[sound of SAT-C terminal receiving incoming message.]

## Primary Communications

### ALL CHAN.

10:57:41.4 [Area of non-pertinent conversation or no conversation.]  
11:09:11.0

### CAPT

11:09:11.0 let's go one-three-eight please.  
11:09:13.6

### AB-3

11:09:14.3 one-three-eight.  
11:09:15.1

### CAPT?

11:09:28.8 what's up?  
11:09:29.5

### 3M

11:09:29.7 hey cap'n.  
11:09:30.4

### 3M

11:09:31.4 (just) got the latest SAT-C over there. (I was tryin' to get a little of this) \*  
11:09:41.4 \* \* .

### CAPT

11:09:41.1 yeah.  
11:09:41.5

### 3M

11:09:44.3 \* \* looks pretty much in line with what B-V-S (is) sayin' as far as  
11:09:49.6 direction.

### CAPT

11:09:49.5 good.  
11:09:50.4

## Secondary and Electronic Communications

### M1/M2

10:57:02.0 [sound of SAT-C printer printing. A sound similar to  
10:57:41.4 paper being torn was detected 8 minutes and 37  
seconds later at approximately 11:05:39.]

## Primary Communications

**CAPT**

11:09:51.9

hopefully it slows down a little bit.

11:09:53.8

**3M**

11:09:54.0

five knots. I don't know what it was before but that's pretty slow.

11:09:58.0

**CAPT**

11:09:57.5

yeah that's good.

11:09:58.6

**CAPT**

11:10:41.8

preparations to protect life and property should be (brought/rushed) to completion. [CAPT sounded as though he was reading.]

11:10:45.9

**3M**

11:10:47.8

that's a new one.

11:10:49.3

**CAPT**

11:10:54.0

[sound of yawn]

11:10:55.2

**CAPT**

11:11:21.9

so tonight at midnight.

11:11:24.1

**3M**

11:11:35.7

(the loop?)

11:11:36.6

**CAPT**

11:11:36.9

yeah. we're eyeballin' it.

11:11:39.1

**CAPT**

11:12:01.6

yeah I think we're gunna– we're gunna duck underneath it.

11:12:04.9

**3M**

11:12:05.7

(it moved.)

11:12:06.4

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

11:12:21.5

11:12:28.7

\* \* got that little dog leg in the (movement) there.

**3M**

11:12:29.1

11:12:31.7

\* \* .

**CAPT**

11:12:31.1

11:12:33.5

yeah. should (all) work out okay.

**3M**

11:12:33.5

11:12:36.9

for E-T-A do you want me to just– just put five o'clock?

**CAPT**

11:12:36.9

11:12:42.8

and then when I do the math– look at the weather– adjust accordingly.

**3M**

11:12:42.7

11:12:46.6

(okay. it's all good.)

**CAPT**

11:12:52.9

11:12:58.7

it's just nice to see where the prevailing weather's coming from before the sun goes down.

**CAPT**

11:13:00.5

11:13:16.2

it's more comforting I think to know that all the weather's on the port bow– all the weather's on the port before you lose your daylight. \* see where the wind is doing. it's a little disconcerting sometimes when... it's dark.

**3M**

11:13:14.1

11:13:25.1

yeah it's and that's where that's really nice to have at night so if you wanna put the wind on the bow or whatever you can do it without (really guess).

**CAPT**

11:13:19.9

11:13:20.2

yup.

## Secondary and Electronic Communications

## Primary Communications

**ALL CHAN.**

11:13:20.2

11:20:57.7

[Area of non-pertinent conversation or no conversation.]

**3M**

11:20:57.7

11:21:03.0

(here it is) \* \* two-three-zero at five knots.

**CAPT**

11:21:05.6

11:21:07.5

two-three-zero at five. [exclaimed]

**3M**

11:22:50.9

11:22:56.8

[sound of chuckle] \* \* this dentist prescribed me a # narcotic. [In a un-transcribed area just prior to this section, 3M and CAPT were discussing the effects of prescription medication for a crew member and a medical log book entry was made.]

**AB-3**

11:22:57.9

11:23:03.1

yeah you can't even enjoy it when you know you gotta pee. damn.

**3M**

11:23:03.4

11:23:08.4

\* \* drug tested (then yeah) Monday (then it would be no problem).

**AB-3**

11:23:05.9

11:23:06.7

yeah

**AB-3**

11:23:07.8

11:23:09.6

(they'll probably) be sayin' a word about it

**AB-3**

11:23:11.1

11:23:13.6

\* ahh "you look pretty happy today."

**3M**

11:24:11.0

11:24:14.1

four knots at the center.

## Secondary and Electronic Communications



## Primary Communications

**AB-3**

11:24:15.5

11:24:16.1

\*.

**3M**

11:24:16.9

11:24:20.0

got it forecasted all the way up to one-twenty.

**AB-3**

11:24:20.1

11:24:21.6

wow. holy #.

**3M**

11:24:23.9

11:24:28.2

\* gusts. max to one-hundred gusts to one-twenty. that's...

**AB-3**

11:24:30.8

11:24:32.5

northeast quadrant?

**3M**

11:24:33.0

11:24:39.6

naw– yeah– that uhh through twelve hundred. the third.

**3M**

11:24:42.1

11:24:43.1

that's a long way off.

**AB-3**

11:24:43.0

11:24:44.4

\* \*.

**3M**

11:24:44.6

11:24:46.2

naw it'll be gone.

**AB-3**

11:24:45.4

11:24:47.0

\* safe harbor.

**3M**

11:24:47.0

11:24:52.1

yeah that's \* we won't see we'll probably see forty-five.

## Secondary and Electronic Communications

## Primary Communications

### ALL CHAN.

11:24:52.1

11:34:17.5

[Area of non-pertinent conversation or no conversation.]

### ALL CHAN.

11:34:33.5

11:45:44.0

[Area of non-pertinent conversation or no conversation.]

### AB-3?

11:45:44.0

11:45:44.8

\*.

### 2M

11:45:46.2

11:45:49.5

(I hate pitchin' in here) \* \* .

### 3M

11:45:50.1

11:45:51.4

(it hasn't rolled).

### 2M

11:45:52.1

11:45:52.9

yeah.

### 3M

11:45:53.7

11:45:55.5

one-three-eight (that's)...

### 2M

11:45:55.1

11:45:55.5

(alright/okay).

## Secondary and Electronic Communications

### M1/M2

11:34:17.5

11:34:25.4

[sound of electric telephone ringing twice.]

### 3M-ET

11:34:25.7

11:34:27.2

bridge– third mate.

### 3M-ET

11:34:29.1

11:34:33.5

it's eighty-seven on the bridge. thank you. [3M was likely referencing the outside temperature.]

## Primary Communications

**3M**

11:45:56.9  
11:45:59.5

we are diverging.

**2M**

11:45:59.3  
11:46:05.6

oh yeah (I see) \* \*. hmm. [clears throat] (alright).

**3M**

11:46:10.4  
11:46:23.3

\* \* next way point. we're headed right to the waypoint– shows us five and half out from \* \* four-six \* \* off course \* \*. what he did to the route is we just went from.

**2M**

11:46:24.4  
11:46:26.2

oh this is in the G-P-S– this new route?

**3M**

11:46:26.4  
11:46:26.9

yes.

**2M**

11:46:26.6  
11:46:27.4

okay.

**3M**

11:46:27.3  
11:46:27.6

yeah.

**2M**

11:46:27.6  
11:46:29.1

so it's. alright.

**3M**

11:46:28.9  
11:46:29.3

right.

**3M**

11:46:29.8  
11:46:39.6

so he wants to get on this trackline \* should trackline \*. so the G-P-S thinks we're going directly from \* the available waypoint to here.

## Secondary and Electronic Communications

## Primary Communications

**2M**

11:46:39.6  
11:46:40.7

ahhh (okay).

**3M**

11:46:40.3  
11:46:53.0

thinks we're supposed to be here— it's here or something. know what I'm sayin'. I don't know why it's not showing up on the radar I tried to get it to display \* \*.

**2M**

11:46:53.4  
11:46:56.2

did you skip to next waypoint?

**3M**

11:46:56.3  
11:46:58.0

mmm no.

**2M**

11:46:58.1  
11:46:59.9

try. I'll try it with one so \* \*.

**3M**

11:47:00.3  
11:47:05.6

yeah. \* \* \*.

**2M**

11:47:05.8  
11:47:17.0

\* \* \* he's tellin' everybody down there— "ohhh it's not a bad storm. it's not so bad. \* \* it's not even that windy out \* \* seen worse."

## Secondary and Electronic Communications

**AB-3**

11:47:06.4  
11:47:10.3

hard to believe there's a hurricane out there.

**AB-3**

11:47:11.8  
11:47:14.8

hear that union meeting outside your door this morning?

**AB-2**

11:47:15.1  
11:47:16.2

you hear me?

## Primary Communications

**2M**

11:47:21.1  
11:47:23.3

so this is the latest?

**3M**

11:47:23.4  
11:47:33.7

yeah \* \* \* up there on the thing if you want further details it's movin' at two-three-zero five knots. \* \* \*.

**2M**

11:47:34.7  
11:47:35.8

(where are we?)

**3M**

11:47:35.7  
11:47:37.6

\* \* \*.

**2M**

11:47:36.9  
11:47:37.6

okay.

**2M**

11:47:39.3  
11:47:42.8

\* yeah I brought this chart out so \* \* \*.

## Secondary and Electronic Communications

**AB-3**

11:47:16.0  
11:47:24.5

# no. \* \* . if I were you I'd come out with a hammer and just \* \* \* . whack. ["whack" was exclaimed] get the # outta here.

**AB-3**

11:47:29.8  
11:47:36.9

this continued I was like ya know usually this– they just gunna stand out there the whole # time.

**AB-2**

11:47:37.0  
11:47:37.9

it was that girl.

**AB-3**

11:47:37.7  
11:47:40.2

both of them– boatswain too.

**Primary Communications**

**3M**  
11:47:42.7 probably you can plot it right on here.  
11:47:44.8

**2M**  
11:47:44.8 now I can yeah.  
11:47:46.2

**AB-3**  
11:47:45.3 anyway you got the guy on port beam goin' that way.  
11:47:48.7

**2M**  
11:47:47.2 \* \* \* the view.  
11:47:50.1

**3M**  
11:47:53.4 alright?  
11:47:54.3

**2M**  
11:47:53.7 \* \* .  
11:47:54.2

**3M**  
11:47:54.8 (you/he's) got it.  
11:47:56.3

**AB-3**  
11:47:57.7 one-three-eight.  
11:47:59.0

**3M**  
11:47:59.7 one-three-eight.  
11:48:01.0

**2M**  
11:48:02.0 one-three-eight (goodnight).  
11:48:03.8

**Secondary and Electronic Communications**

**AB-3**  
11:47:41.4 he ought to know better than that. he ought to  
11:47:43.9 know better.

## Primary Communications

**ALL CHAN.**

11:48:03.8 [Area of non-pertinent conversation or no conversation.]  
11:50:07.4

**2M**

11:50:07.4 (yeah that's down there).  
11:50:10.7

**2M**

11:50:11.9 (should be fine).  
11:50:13.1

**AB-2**

11:50:13.0 the storm?  
11:50:13.9

**2M**

11:50:13.6 yeah.  
11:50:14.1

**2M**

11:50:15.8 "it's nothing-- it's nothing!" and uhh I'm-- I'm going up here \* \* way off  
11:50:39.1 course. \* \* (going off) course it's nothing then why the # are we goin' on  
a different track line? think he's just tryin' to play it down because he  
realizes we shouldn't have come this way. \* saving face \* \* \*.

**AB-2**

11:50:42.1 \* \* \*. we're gettin' sea swells now.  
11:50:46.5

**2M**

11:50:46.3 uh huh well @AB-2 we are here and the storm is here.  
11:50:52.1

**2M**

11:50:59.9 (we're entering it).  
11:51:01.3

**ALL CHAN.**

11:51:01.3 [Area of non-pertinent conversation or no conversation.]  
11:53:00.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

11:53:00.3  
11:53:02.7

# we're gettin' killed with this speed.

**2M**

11:53:03.2  
11:53:08.7

oh yeah. I think now it's not a matter of speed it when we get there we get there as long as we arrive in one piece.

**CAPT**

11:53:08.9  
11:53:09.3

yeah.

**CAPT**

11:53:17.9  
11:53:19.1

[sound of throat being cleared]

**CAPT**

11:53:19.1  
11:53:23.5

well we're only doing eighteen-nine right now. I mean we'll pick up a little bit.

**CAPT**

11:53:24.7  
11:53:26.8

(we) gotta get through this storm.

**AB-2**

11:53:26.9  
11:53:28.7

yeah \* \* through it

**CAPT**

11:53:29.0  
11:53:29.4

yup.

**AB-2**

11:53:30.2  
11:53:33.6

figure out (what else). (we) got to go on.

**ALL CHAN.**

11:53:33.6  
11:55:38.2

[Area of non-pertinent conversation or no conversation.]

**M1**

11:55:38.2  
11:56:14.8

[sound similar to GMDSS equipment operating. The system was possibly performing a self test.]

## Secondary and Electronic Communications



**Primary Communications**

**ALL CHAN.**

11:56:14.8  
11:58:04.8

[Area of non-pertinent conversation or no conversation.]

**AB-2**

11:58:09.1  
11:58:10.5

\* \* messaging?

**2M**

11:58:11.2  
11:58:12.1

no it was \* \*.

**AB-2**

11:58:12.2  
11:58:12.7

oh.

**2M**

11:58:13.2  
11:58:15.2

[sound of chuckle] \* \* ...

**AB-2**

11:58:14.4  
11:58:15.7

(they) should be sending some messages.

**2M**

11:58:15.8  
11:58:17.6

oh yeah they have been.

**2M**

11:58:20.0  
11:58:20.8

yuup.

**2M**

11:58:28.3  
11:58:30.6

[2M sang a short part of the hook to the song playing on the radio.]

**Secondary and Electronic Communications**

**M1**

11:58:04.8  
11:58:05.6

[sound similar to quick stroke of SAT-C terminal printer.]

**SXM**

11:58:24.7  
11:58:29.8

[The Sirius XM (SXM) satellite radio was turned on.]

**Primary Communications**

**Secondary and Electronic Communications**

**2M**

11:58:41.6 there she is.  
11:58:44.5

**AB-2**

11:58:47.1 \* \* \* .  
11:58:48.4

**2M**

11:58:49.6 yes. \* \* \* (too).  
11:58:52.3

**AB-2**

11:58:52.3 \* \* .  
11:58:53.3

**2M**

11:58:53.8 oh.  
11:58:54.3

**AB-2**

11:58:54.7 \* \* \* .  
11:58:59.7

**2M**

11:59:01.7 \* \* \* .  
11:59:04.1

**2M**

11:59:11.0 that's us. see the red. that's us.  
11:59:14.5

**AB-2**

11:59:14.3 \* \* right there?  
11:59:17.2

**2M**

11:59:17.2 right now– this is right now– this is current.  
11:59:20.7

## Primary Communications

**M1/M2**  
11:59:20.7  
11:59:45.2  
SUMMARIZED AREA  
[The 2M and AB-2 continued speaking about weather and route timing, however, much of the conversation was drowned out by a commercial playing on the SXM radio.]

**M1/M2**  
11:59:45.2  
11:59:48.5  
[sound of hourly GPS alarm activating.]

**M1/M2**  
12:00:09.1  
12:00:12.5  
[Sound of one bell– consistent with the noon general alarm test.]

**ALL CHAN.**  
12:00:12.5  
12:09:32.9  
[Area of non-pertinent conversation or no conversation.]

**AB-2**  
12:09:32.9  
12:09:36.9  
[An unintelligible comment– the words “speed” and “Alaska” were detected.]

**2M**  
12:09:36.7  
12:09:39.7  
I know \* \* are you serious?

**2M**  
12:09:43.6  
12:09:49.5  
get there in one piece. who cares what time we get there as long as we get there.

**ALL CHAN.**  
12:09:49.5  
12:11:18.3  
[Area of non-pertinent conversation or no conversation.]

**AB-2**  
12:11:18.3  
12:11:26.8  
\* \* (gas/guys). \* \* \*

## Secondary and Electronic Communications

**M1/M2**  
11:59:49.7  
11:59:51.0  
[sound similar to two strokes of the SAT-C terminal printer mechanism.]

## Primary Communications

**2M**

12:11:26.7 yeah I just (wanna do that) and uh two of the Polish guys were standing  
12:11:50.4 there \* \* \* make sure they know \* hurricane \* \* one of them (he) smiled  
(and) \* \* "hurricane! yes!" [sound of laughter] they're all excited about it.  
ahh if they only knew. [sound of laughter]

**AB-2**

12:11:50.4 \* \* \*  
12:11:53.5

**2M**

12:11:53.6 uh I don't know if they're gunna work or not.  
12:11:56.0

**AB-2**

12:11:55.8 \* \*  
12:11:57.4

**2M**

12:11:57.6 not if it's raining.  
12:11:59.1

**2M**

12:12:00.1 well...  
12:12:01.6

**AB-2**

12:12:00.9 it's goin' be raining.  
12:12:02.3

**AB-2**

12:12:04.6 \* \* (stand up).  
12:12:07.7

**AB-2**

12:12:09.0 I remember from the *El Morro*— couple storms we went through.  
12:12:14.7

**AB-2**

12:12:19.1 # was flying everywhere. [expletive was spoken in a drawn out  
12:12:22.2 manner.]

## Secondary and Electronic Communications

## Primary Communications

**2M**

12:12:22.6  
12:12:24.2

ohhh yes.

**AB-2**

12:12:24.3  
12:12:29.3

especially the (computer) oh my goodness. [made a whooshing noise]

**2M**

12:12:29.9  
12:12:33.2

that chair isn't secured is it?

**AB-2**

12:12:35.7  
12:12:37.8

\* \* .

**AB-2**

12:12:41.9  
12:12:44.7

(it got four legs it can) stand on its own.

**2M**

12:12:44.8  
12:12:46.3

[sound of laughter]

**2M**

12:12:47.3  
12:12:50.5

that's gunna be over on this side in no time.

**AB-2**

12:12:51.0  
12:12:53.9

\* \* \* .

**AB-2**

12:13:25.5  
12:13:33.6

(already got) in there \* \* looks like it might be Cape Hatteras North Carolina or ( \* ) .

**2M**

12:13:33.8  
12:13:35.7

further north.

**AB-2**

12:13:35.1  
12:13:35.9

New York.

## Secondary and Electronic Communications

## Primary Communications

**2M**

12:13:35.8 yeah. New York. a lot of tracklines shot it to New York.  
12:13:42.0

**AB-2**

12:13:43.3 New York is \* \*.  
12:13:45.9

**AB-2**

12:13:46.8 New York– New Jersey. \* (just rebuilt).  
12:13:52.4

**2M**

12:13:56.8 yeah– Hurricane Sandy [Hurricane Sandy, October 2012] (man/again).  
12:14:00.2

**AB-2**

12:14:02.6 \* \* \*. that's (your/the) job.  
12:14:07.1

**ALL CHAN.**

12:14:07.1 [Area of non-pertinent conversation or no conversation.]  
12:19:04.6

**AB-2**

12:19:04.6 \* sun's out– blue sky. don't look like there's many clouds.  
12:19:11.3

**2M**

12:19:11.8 \* (yeah) it's nice right now.  
12:19:13.9

**AB-2**

12:19:14.0 it's something (out there/else).  
12:19:16.3

**CAPT**

12:19:19.6 okay if I take this down? below here just a little reference. I'm gunna  
12:19:24.6 send (the weather).

**2M**

12:19:23.4 yeah \* \* can I run down and get the umm packing list– I don't know why  
12:19:33.9 they (ordered all this). I just wanna make sure \* \*.

## Secondary and Electronic Communications

**Primary Communications**

**CAPT**

12:19:34.9 take your time– take your time. roger that.  
12:19:36.2

**ALL CHAN.**

12:19:36.2 [Area of non-pertinent conversation or no conversation.]  
12:23:58.9

**2M**

12:24:00.5 there's our weather.  
12:24:05.0

**ALL CHAN.**

12:25:41.2 [Area of non-pertinent conversation or no conversation.]  
12:31:54.6

**M1**

12:31:54.6 SUMMARIZED AREA  
12:33:30.8 [2M was speaking in this area about new charts that were ordered and received for a future voyage to the west coast].

**ALL CHAN.**

12:34:37.6 [13.4 seconds of audio was determined to be missing between  
12:34:51.0 12:34:37.6 P.M. and 12:34:51 P.M. on September 30, 2015.]

**2M**

12:35:00.6 these charts don't get me very far. oh it's to the northwest.  
12:35:04.9

**AB-2**

12:35:12.7 \* \* \*  
12:35:18.5

**Secondary and Electronic Communications**

**M1/M2**

12:23:58.9 [sound of SAT-C terminal receiving incoming  
12:24:15.3 message.]

**M1/M2**

12:24:22.8 [sound of SAT-C terminal printer printing.]  
12:25:41.2

## Primary Communications

**2M**

12:35:18.8 what's that?  
12:35:20.1

**AB-2**

12:35:20.2 said you can see that—  
12:35:21.0

**ALL CHAN.**

12:35:21.0 [15.0 seconds of audio was determined to be missing between  
12:35:36.0 12:35:21 P.M. and 12:35:36 P.M. on September 30, 2015.]

**AB-2**

12:41:50.6 well we'll see what *El Yunque* got to say comin' down.  
12:41:54.6

**2M**

12:41:56.0 wonder what route they're taking? they takin' the Old Bahama Channel.  
12:42:03.3 if they were smart (they would do that).

**AB-2**

12:42:07.5 yeah if we don't see 'em we know where they're at.  
12:42:10.5

**2M**

12:42:09.7 yup.  
12:42:11.0

**ALL CHAN.**

12:42:11.0 [Area of non-pertinent conversation or no conversation.]  
13:00:25.9

**2M**

13:00:25.9 hi. [spoken with rising inflection]  
13:00:26.6

**SUP-1**

13:00:26.4 look at you all freshened up huh?  
13:00:28.7

**2M**

13:00:27.7 [sound of laugh] gourmet coffee.  
13:00:30.3

## Secondary and Electronic Communications



**Primary Communications**

**Secondary and Electronic Communications**

**SUP-1**

13:00:30.0  
13:00:31.3

is it gourmet?

**2M**

13:00:31.7  
13:00:33.2

and it's freshly ground.

**SUP-1**

13:00:33.3  
13:00:33.9

really?

**2M**

13:00:33.9  
13:00:34.9

yes.

**SUP-1**

13:00:34.5  
13:00:37.4

wow \* \* \* .

**2M**

13:00:37.3  
13:00:38.2

[sound of laugh]

**SUP-1**

13:00:37.9  
13:00:39.0

\* \* .

**2M**

13:00:38.6  
13:00:41.3

we do not joke around up here when it comes to coffee.

**SUP-1**

13:00:40.2  
13:00:42.4

I guess not. #.

**2M**

13:00:43.6  
13:00:45.6

did you wanna see the storm?

**SUP-1**

13:00:46.8  
13:00:47.9

\* \* .

## Primary Communications

**2M**

13:00:47.8  
13:00:52.7

did you wanna see the pretty pictures with the pretty– pretty colors?

**SUP-1**

13:00:55.7  
13:00:60.0

heyyy.[spoken with rising inflection] good afternoon. wow look at that.  
[exclaimed]

**2M**

13:00:59.1  
13:01:08.1

that's us. that's the storm. (at) the end of watch. oh. oh. oh. yeah. ["oh. oh. oh. yeah." was spoken with rising inflection and then the "yeah" was exclaimed.]

**SUP-1**

13:01:03.6  
13:01:04.8

more. [dramatically exclaimed]

**SUP-1**

13:01:07.9  
13:01:08.5

where are (we)?

**2M**

13:01:08.6  
13:01:10.1

we're right there.

**SUP-1**

13:01:09.9  
13:01:10.5

uh huh.

**2M**

13:01:10.6  
13:01:12.7

this is um tomorrow.

**SUP-1**

13:01:12.8  
13:01:13.5

really.

**2M**

13:01:13.2  
13:01:13.9

tomorrow morning.

## Secondary and Electronic Communications

## Primary Communications

### SUP-1

13:01:14.0  
13:01:14.8

tomorrow morning?

### 2M

13:01:15.2  
13:01:28.8

tentative. but this is us right now. now we are taking a little bit further south trackline– down here– this so we're gonna be (here morning) \* \* .

### SUP-1

13:01:21.7  
13:01:22.6

\* \* .

### SUP-1

13:01:28.1  
13:01:29.6

\* duck down from the islands here?

### 2M

13:01:29.5  
13:01:33.6

(not) behind. (we're) right here. storms right (there/here).

### SUP-1

13:01:30.6  
13:01:31.9

no. just. okay.

### SUP-1

13:01:33.2  
13:01:33.9

m'kay. [okay]

### 2M

13:01:35.3  
13:01:37.9

we're not (we're not) (going/gonna be) very far off course.

### SUP-1

13:01:37.7  
13:01:38.3

yeah.

### 2M

13:01:38.9  
13:01:40.7

\* \* still \* .

### SUP-1

13:01:40.9  
13:01:44.3

\* captain (gonna grab) Bahama Channel (before that)?

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:01:44.4  
13:01:44.8

yeah.

**SUP-1**

13:01:46.5  
13:01:51.4

well don't say anything (about this) (to the riders) (I) won't share \* \*.

**2M**

13:01:51.5  
13:01:59.1

well (if @CAPT/I'm making sure it's in there/it might show this) right now \* \* (aim for it) (and then I think for) I think *El Yunque* (will/would) probably be taking that (coming up).

**SUP-1**

13:01:59.1  
13:01:59.8

yeah.

**2M**

13:02:00.3  
13:02:01.6

so (we/I) know.

**SUP-1**

13:02:01.6  
13:02:04.1

and this is going to shoot north after this?

**2M**

13:02:05.7  
13:02:07.2

this is Friday.

**2M**

13:02:09.3  
13:02:12.5

yeah so they have and it gets us to this point and then.

**SUP-1**

13:02:12.4  
13:02:16.5

then where's it go? cause I was planning on going home for a week next week. so how's it look up there?

**2M**

13:02:16.4  
13:02:22.0

umm it looks like I think (they're) predicting the weekend \* (in New York).

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:02:27.8 umm \* three so that's Sunday– yeah so (again/like yeah) \* \* \* (we'll  
13:02:38.5 have to see where it moves) \* \* \*.

**SUP-1**

13:02:39.8 dissipating \* \*  
13:02:41.3

**2M**

13:02:41.6 yeah it's a lot of rain– it's \*.  
13:02:44.8

**SUP-1**

13:02:45.0 what day is that? Monday?  
13:02:47.3

**2M**

13:02:46.6 this is the (fifth).  
13:02:48.3

**2M**

13:02:50.0 that's Monday.  
13:02:51.7

**SUP-1**

13:02:51.8 \* \*.  
13:02:53.2

**2M**

13:02:53.1 should be okay in Jacksonville.  
13:02:54.8

**SUP-1**

13:02:54.2 yeah beginning (of the week).  
13:02:56.4

**2M**

13:02:56.5 mmm.  
13:02:57.7

**SUP-1**

13:02:57.7 Tuesday?  
13:02:58.5

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:02:58.4  
13:03:00.2

(gunna be windy).

**2M**

13:03:01.3  
13:03:04.0

that's a (twenty/thirty) six knot wind right there.

**AB-2?**

13:03:05.2  
13:03:06.7

\* \* \* .

**SUP-1**

13:03:06.6  
13:03:07.2

yes.

**2M**

13:03:07.8  
13:03:08.9

[sound of laughter]

**SUP-1**

13:03:12.0  
13:03:13.4

alright.

**2M**

13:03:12.7  
13:03:13.8

lots of rain.

**2M**

13:03:17.9  
13:03:22.0

(but yeah) \* \* \* (I'm) gettin' the charts ready.

**SUP-1**

13:03:22.0  
13:03:24.2

yeah my friends (went to school there).

**2M**

13:03:24.8  
13:03:36.9

well it would make sense. (save the) \*. (but/alright) actually um  
(Mexico/wants to) (go) up \* yeah– after the Panama.

**SUP-1**

13:03:33.2  
13:03:34.1

oh?

## Secondary and Electronic Communications

## Primary Communications

### SUP-1

13:03:34.2 west coast?  
13:03:35.1

### SUP-1

13:03:35.8 nice.  
13:03:36.6

### SUP-1

13:03:38.7 alright. well hey this is a fine cup of coffee so thank you.  
13:03:41.6

### 2M

13:03:41.2 oh well you are welcome. always available.  
13:03:44.4

### AB-2

13:03:51.1 pack (your) pipes (up) for \*.  
13:03:52.7

### SUP-1

13:03:52.8 absolutely. \* \* bottles secured. pipes are uh— pipes are all lashed down  
13:04:01.5 (just/so) yeah that should be alright.

### 2M

13:04:01.9 lash down your workers?  
13:04:03.2

### SUP-1

13:04:03.9 they're all excited.  
13:04:05.3

### 2M

13:04:05.8 I don't think they realize what they're getting into. [sound of chuckle]  
13:04:09.6

### AB-2

13:04:09.7 see what color their heads are tomorrow.  
13:04:12.2

### SUP-1

13:04:11.4 yeah right.  
13:04:12.2

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:04:12.2  
13:04:12.9

yeah.

**AB-2**

13:04:13.6  
13:04:16.2

yeah bendin' over.

**AB-2**

13:04:15.8  
13:04:16.6

[sound of imitating throwing up.]

**SUP-1**

13:04:16.6  
13:04:18.7

alright. very good. thank you.

**2M**

13:04:18.8  
13:04:19.6

yeah.

**AB-2**

13:04:19.4  
13:04:20.5

'kay you all set?

**SUP-1**

13:04:20.5  
13:04:21.2

fine.

**ALL CHAN.**

13:04:21.2  
13:15:43.6

Area of non-pertinent conversation or no conversation.]

**2M**

13:15:43.6  
13:15:53.2

the ten charts that they sent \* (they printed off) without the \* latest \* \*  
so...

**CAPT**

13:15:52.8  
13:15:54.0

(sent out) how many? eleven?

**2M**

13:15:54.7  
13:15:56.5

yeah just about. yeah.

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

13:15:56.3  
13:15:56.8

\*

**2M**

13:15:58.1  
13:16:06.2

\* \* it looks like august \* \* and the latest one was August the twenty-second.

**CAPT**

13:16:06.3  
13:16:07.0

(right).

**2M**

13:16:07.0  
13:16:10.0

\* \* (go back) about a month.

**2M**

13:16:10.5  
13:16:11.5

\* \* .

**CAPT**

13:16:11.6  
13:16:13.7

yeah maybe there's (not much on it).

**2M**

13:16:13.3  
13:16:15.2

yeah. (probably/maybe) not.

**2M**

13:16:18.6  
13:16:25.0

\* \* (just annoying) \* \* \* (doesn't really ask) \* \* \* .

**CAPT**

13:16:31.0  
13:16:32.3

Doctor Laura? [The SXM radio was playing in the background. The sound of heavy grinding was also heard.]

**2M**

13:16:32.6  
13:16:34.5

yeah (Fox News).

**2M**

13:16:37.5  
13:16:39.3

I've never (listened) \* \* .

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

13:16:39.5

alright then.

13:16:40.6

**2M**

13:16:48.2

[There was an unintelligible joke-like comment about radio show, the words "Doctor Laura" and "chart" were detected.]

13:16:52.5

**CAPT**

13:16:52.6

so it looks like half of the page– there's one right there.

13:16:56.4

**CAPT**

13:16:57.2

talks for five minutes then you get five minutes of (useless) commercials.

13:17:00.5

**2M**

13:17:00.5

yes.

13:17:01.2

**CAPT**

13:17:04.8

from here– here on out log the weather. just um wind direction and force– barometer. every hour.

13:17:12.1

**2M**

13:17:10.1

okay.

13:17:10.8

**2M**

13:17:11.3

yeah sure I'll put in (the logbook/for one o'clock) right now.

13:17:14.3

**CAPT**

13:17:14.3

keep an eye on this I mean I know it's in a lull.

13:17:17.0

**2M**

13:17:18.5

\* \*.

13:17:19.7

**CAPT**

13:17:22.5

(looks like it spread out). just wish the speed was a little better but \* \*  
(be doin') one-hundred and eighteen.

13:17:30.2

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:17:30.1 [sound of laughter] get the hell outta this (mix/mess).  
13:17:32.4

**CAPT?**

13:17:32.6 come on (@UNK).  
13:17:34.1

**2M**

13:17:34.4 \* \* \*.  
13:17:36.6

**CAPT**

13:17:36.8 I know this that's a landmass comin' up here (over) \* \* \*.  
13:17:40.2

**2M**

13:17:40.1 yeah. yeah.  
13:17:41.2

**AB-2**

13:17:43.1 \* \* \*.  
13:17:44.6

**2M**

13:17:44.0 \* \* \*.  
13:17:45.2

**CAPT**

13:17:47.9 oh yeah.  
13:17:48.5

**CAPT**

13:17:51.6 yeah it's gunna get worse before it gets better.  
13:17:54.4

**2M**

13:17:54.7 Sirius X-M \* \* \* \*.  
13:17:58.3

**AB-2**

13:17:58.9 \* \* \* \*.  
13:18:00.5

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

13:18:00.5  
13:18:01.7

\* it's not (a whole lot).

**AB-2**

13:18:02.9  
13:18:06.5

oh I know I \* \* .

**CAPT**

13:18:06.3  
13:18:07.7

(probably) \* .

**CAPT**

13:18:08.8  
13:18:18.0

that's it. I wish it were \* \* twelve o'clock– the swell should stay okay and eventually (off the port there/we won't record it) there \* (and either).

**2M**

13:18:18.1  
13:18:20.3

do you want the temperature too? or every other hour?

**CAPT**

13:18:20.0  
13:18:24.3

no. no– no– no. I don't necessarily need the temperature \* \* .

**CAPT**

13:18:26.0  
13:18:27.3

the barometer.

**CAPT**

13:18:28.6  
13:18:30.3

(heelin'/feelin') fine.

**AB-2**

13:18:30.5  
13:18:32.7

here it is. the news.

**2M**

13:18:41.2  
13:18:43.2

\* (already gettin'/has) enough rain. [This was in reference to the satellite radio broadcast which is referencing an eastern seaboard forecast related to Hurricane Joaquin.]

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

13:18:43.0

rain (yeah listen).

13:18:43.7

**CAPT**

13:18:44.4

this. this is all (back up there).

13:18:47.0

**CAPT**

13:18:50.8

this storm like really gets big on the third or the fifth. \* \* .

13:18:56.3

**2M**

13:19:03.7

\* \* \* warning in red for this weekend for rain– severe flooding and rain. they never mentioned it though they didn't say a thing like "oh you know (two more days/to the northeast)" (and then) they cover the entire state of Maine. [sound of cackle] thanks. [thanks was spoken sarcastically and exclaimed]. (oh) yeah some people live up there– Canada [exclaimed] Canada.

13:19:26.6

**ALL CHAN.**

13:19:26.6

[Area of non-pertinent conversation or no conversation.]

13:20:10.8

**CAPT**

13:20:10.8

so there's a possibility you're gonna take the Old Bahama Channel comin' home– on the northbound.

13:20:15.5

**2M**

13:20:15.2

the charts already on the second drawer down.

13:20:17.0

**CAPT**

13:20:17.1

perfect– thank you. I have to wait for confirmation from the office but I put it out there.

13:20:22.6

**2M**

13:20:21.8

okay.

13:20:22.6

**CAPT**

13:20:22.8

and I'll let ya know.

13:20:24.5

## Secondary and Electronic Communications

## Primary Communications

### ALL CHAN.

13:20:24.5 [Area of non-pertinent conversation or no conversation.]  
13:26:52.2

### 2M

13:26:52.2 uhh one every hour– it's umm– (six / half) hour? \* \* we're doing it (on a  
13:27:04.2 storm they want it) \* \* \*. [it's possible there was an unintelligible UHF or  
ET call from 2M to an unknown person that prompted this comment.]

### ALL CHAN.

13:36:16.7 [Area of non-pertinent conversation or no conversation.]  
13:41:51.1

### 2M

13:41:51.1 but tomorrow afternoon mid-afternoon should be out of it then it just  
13:42:02.3 gets better from there. \* \* Puerto Rico but uhh.

### 2M

13:42:05.1 yeah. tonight. wee hours of the morning.  
13:42:10.6

### 2M

13:42:12.3 smack in the middle of it. (we'll see) \* \* twenty-three hundred tonight–  
13:42:17.5 gunna be right in the middle of it.

### 2M

13:42:22.4 \* \*. [An unintelligible comment obscured by the grinder-like noise in the  
13:42:25.5 background. Any other conversation in this area was obscured by the  
grinding noise.]

### ALL CHAN.

13:42:25.5 [Area of non-pertinent conversation or no conversation.]  
13:44:02.7

### 2M

13:44:07.1 \* \*.  
13:44:08.1

## Secondary and Electronic Communications

### ?-UHF?/VHF?

13:44:02.7 [sound of unintelligible UHF or VHF radio call.]  
13:44:06.5

## Primary Communications

**AB-2**  
13:44:10.2 \* \* the shipyard– shipyard \* \* (come) back.  
13:44:16.4

**2M**  
13:44:17.9 oh that's nice.  
13:44:19.8

**AB-2**  
13:44:19.8 be a good time for it to show up.  
13:44:22.0

**2M**  
13:44:21.9 yeah.  
13:44:22.5

**AB-2**  
13:44:22.4 #. [expletive was spoken in a drawn out manner.]  
13:44:23.0

**AB-2**  
13:44:23.8 you know they don't give a # \* (shipyard).  
13:44:26.0

**2M**  
13:44:26.6 (I think it's gunna be) most useful.  
13:44:29.4

**2M**  
13:44:30.6 he'll have his work cut out for him.  
13:44:32.8

**AB-2**  
13:44:33.2 \* \* .  
13:44:34.3

**2M**  
13:44:34.7 oh man @OTE hates the shipyard.  
13:44:37.6

**AB-2**  
13:44:38.3 they worked his ass off in the shipyard.  
13:44:40.0

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:44:40.1  
13:44:59.6

I'll tell you what. I keep tellin' him "why the # do you do that for yourself?" obviously it's gotten you nowhere with this company– they don't appreciate it. he was puttin' twenty-four hour days– literally twenty-four hour days. the (last long) shipyard– and he got nothing for it. except for a "# you– you burn out we don't want you for the new ship(s)."

**2M**

13:45:02.5  
13:45:10.5

\* \* why you (goin) there? "well...gotta keep busy." well this keepin' busy is stupid.

**AB-2**

13:45:13.1  
13:45:16.1

gunna be lookin' for another job.

**2M**

13:45:15.8  
13:45:22.4

I'm sure he is. well he's an engineer so won't have any trouble finding another job.

**2M**

13:45:24.3  
13:45:27.7

but at a company that actually appreciates (his) hard work.

**AB-2**

13:45:29.8  
13:45:32.2

damn sure a worker.

**2M**

13:45:32.2  
13:45:32.9

yep.

**AB-2**

13:45:33.4  
13:45:36.1

if it's something he don't know he'll figure it out.

**2M**

13:45:36.9  
13:45:39.9

\* not much he doesn't know.

**AB-2**

13:45:39.1  
13:45:40.5

might take him a little while. he'll figure it out.

## Secondary and Electronic Communications



## Primary Communications

**ALL CHAN.**

13:45:40.5

13:49:41.4

[Area of non-pertinent conversation or no conversation.]

**AB-2**

13:49:41.4

13:49:44.0

looks like the wind's startin' to pick up a little bit.

**AB-2**

13:49:50.9

13:49:54.7

\* \*. I think it is.

**2M**

13:49:57.6

13:50:00.2

yeah a few more whitecaps \* \*.

**AB-2**

13:50:04.0

13:50:06.1

only on our watch.

**2M**

13:50:06.3

13:50:07.8

[sound of chuckle]

**AB-2**

13:50:14.0

13:50:15.6

\* \* \*.

**ALL CHAN.**

13:50:15.6

13:54:40.0

[Area of non-pertinent conversation or no conversation.]

**3M**

13:54:40.0

13:54:42.6

for a while this morning it was...

**2M**

13:54:42.8

13:54:46.9

oh the weather report. it just sent by email right? the turbo wind?

**2M**

13:54:47.9

13:54:50.1

okay. I sent one for the two o'clock.

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:54:51.0  
13:54:54.6

the eighteen-hundred– report.

**2M**

13:54:55.4  
13:54:59.8

I've never had to do it before– so like okay– heh– sure.

**3M**

13:55:01.2  
13:55:06.9

umm yeah it's kind of nice you don't have to take (notes for that station).

**2M**

13:55:06.8  
13:55:07.4

yeah.

**3M**

13:55:07.4  
13:55:09.9

(I agree) \* \* \*.

**2M**

13:55:13.9  
13:55:26.5

\* (when we're) going through this storm (they'd) probably like to have weather reports. \* don't know if they'll have any other ships reporting (although) I don't know if any other ships are going right into it like we are.

**3M**

13:55:28.1  
13:55:32.0

(the) *El Yunque* I guess will be following it up.

**2M**

13:55:32.6  
13:55:34.7

I don't know– they have to take Old Bahama?

**2M**

13:55:36.1  
13:55:39.7

or they're gunna get lucky and yeah follow– right behind (it).

**3M**

13:55:47.6  
13:55:49.9

what are they there on Monday(s) or Sundays?

## Secondary and Electronic Communications

## Primary Communications

**2M**

13:55:50.9 (Monday I think) okay \* yeah. Tuesday– Wednesday then Thursday  
13:55:56.6 Friday and (Jax). [as in Jacksonville]

**3M**

13:55:58.3 think it's Friday and its gunna be Friday yeah *El Yunque* will follow it up.  
13:56:04.1

**2M**

13:56:04.5 yeah (*El Yunque*/they'll be lucky).  
13:56:06.8

**3M**

13:56:06.9 Friday it'll be up wherever the hell– Carolina. [as in the state]  
13:56:10.5

**3M**

13:56:16.5 \* \* \* .  
13:56:23.3

**3M?**

13:56:25.7 \* \* \* .  
13:56:30.2

**3M**

13:56:30.6 be right back.  
13:56:31.5

**?**

13:56:31.7 (yep).  
13:56:32.1

**2M**

13:56:46.6 okay today's Wednesday– so *El Yunque*– should be– so when do we  
13:56:58.4 pass *El Yunque*? normally be tonight right?

**2M**

13:57:00.1 yeah. the end of our– tail end of our watch with the four to eight watch.  
13:57:05.0 tonight.

**2M**

13:57:09.7 but if they went the Old Bahama Channel and we won't see 'em.–  
13:57:17.3 because they've been goin' through it too– when they came up.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

13:57:18.5 they've been goin' through it. they didn't get much of it. might have went  
13:57:24.8 around actually.

**2M**

13:57:27.2 (might have) taken the long route.  
13:57:30.3

**ALL CHAN.**

13:57:30.3 [Area of non-pertinent conversation or no conversation.]  
14:02:18.7

**2M**

14:02:18.7 barometer dropping?  
14:02:21.3

**CAPT**

14:02:20.8 yeah. can't \* \* \* (won't see it happen) \* \* .  
14:02:25.2

**2M**

14:02:29.7 right now (it's doin') an easterly swell.  
14:02:32.2

**CAPT**

14:02:33.8 (yeah) we'll just have to watch it. there's not much we can do. (but they)  
14:02:43.6 the weather pattern itself is crazy erratic.

**2M**

14:02:43.8 what it's lookin' like now about twenty-three hundred we should be full  
14:02:55.1 force slammin' into it. it's a good thing I'm (the/no) swell whisperer.  
[sound of laugh]

**CAPT**

14:02:54.8 right. accu-weather tracker.  
14:02:57.3

**2M**

14:02:56.7 \* \* (swell) I can feel it [sound similar to a tap or a snap of a finger] like  
14:03:00.3 "this way."

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

14:03:00.8 yeah you know. we'll just– we'll just– this is– this is fine.  
14:03:05.5

**2M**

14:03:05.5 this is comfortable– this is nice.  
14:03:07.3

**CAPT**

14:03:07.3 I mean– even if– if the swell increases but as long as it stays...  
14:03:11.4

**2M**

14:03:11.3 yeah– in that direction.  
14:03:13.4

**CAPT**

14:03:13.4 ...like this. it's eventually gonna back and I want get down below it  
14:03:21.2 before– because we don't (know).

**2M**

14:03:20.3 do you know if the *El Yunque* took old Bahama.  
14:03:23.2

**CAPT**

14:03:23.0 she did not.  
14:03:24.0

**2M**

14:03:24.1 really?  
14:03:24.6

**CAPT**

14:03:26.1 she's lightly loaded. [sound of laughter]  
14:03:29.8

**CAPT**

14:03:29.2 they put some turns on her and they're stayin' ahead of her.  
14:03:32.8

**2M**

14:03:33.1 oh okay. oh so they did get ahead. that's good.  
14:03:35.6

## Secondary and Electronic Communications

## Primary Communications

**2M**

14:03:36.5  
14:03:38.4

\* \* pretty badly. (they say it's pretty nasty?)

**CAPT**

14:03:39.6  
14:03:48.5

umm @CAPT-EY said he saw a hundred gust to a hundred knots. they were going in to it.

**2M**

14:03:47.9  
14:04:05.1

\* see that not been workin' accurately so it's not– we'll just stick @AB-2 out there– we'll do the @AB-2– @AB-2 gauge. @AB-2 gauge if you get blown off the bridge we'll be like "owww it was about a hundred– ninety– \* mile per hour gust." [the reference is to the ship's anemometer.]

**CAPT**

14:04:08.0  
14:04:20.0

gunna be–sou far enough south. not gunna hit the (# thing). watch. gunna get a little (rougher/rudder). (this/these) ships can take it.

**2M**

14:04:19.8  
14:04:22.3

yeah. they're built for Alaska.

**CAPT**

14:04:22.5  
14:04:23.6

exactly.

**CAPT**

14:04:25.3  
14:04:26.9

gunna take this (well/swell).

**CAPT**

14:04:28.2  
14:04:32.9

this weather system didn't make it's move until on– early on your watch.

**2M**

14:04:32.4  
14:04:37.1

I know all the sudden I'm like where the hell did this thing come from? \*  
\* that from (Ida)? [Tropical Storm Ida (2015)]

**CAPT**

14:04:39.1  
14:04:39.7

yeah.

## Secondary and Electronic Communications

## Primary Communications

**2M**

14:04:40.5  
14:04:43.7

what? bits and pieces from Ida. so it went from Ida to (Joaquin).

**CAPT**

14:04:43.3  
14:04:46.8

what time did you start getting your warnings?

**2M**

14:04:47.1  
14:04:52.4

I think earlier this morning– our– our \* \* \*.

**CAPT**

14:04:53.5  
14:04:57.1

something \* did you start getting like warnings?

**2M**

14:04:56.6  
14:05:07.9

that was about midnight– midnight sixteen is when I got that warning.–  
umm– tropical storm

**CAPT**

14:05:10.4  
14:05:17.2

'cause it sat just festering for a better part of a week. pretty much just...

**2M**

14:05:16.7  
14:05:19.8

but that's Ida and then (also/all the sudden) the name change \*.

**2M**

14:05:24.7  
14:05:26.4

so yeah. (the same one).

**CAPT**

14:05:33.9  
14:05:36.8

I hope (we get to / that it doesn't) take the Old Bahama Channel back. \*  
\*.

**2M**

14:05:40.0  
14:05:43.1

does the company (want/give) permission now (or) \* \*.

**CAPT**

14:05:42.8  
14:05:44.1

(from) management.

## Secondary and Electronic Communications

## Primary Communications

**2M**

14:05:44.3 'cause it used to be just we're doin' it. you people are sittin' in your  
14:05:53.5 office behind a desk and we're out here– we're doin' it. \* yeah.

**CAPT**

14:05:50.3 well I'm extending that professional courtesy because it does add a  
14:05:58.2 hundred and sixty nautical miles– to the (distance).

**2M**

14:05:58.9 yeah but it also sav– saves on the ship's stress– stress of the ship.  
14:06:03.1

**CAPT**

14:06:03.0 that's why you know I just said hey you know– I would like to take this  
14:06:23.3 goin' northbound. I'll wait for your reply. I don't think they'll say no. I  
gave them a good reason why because if you should follow this (down)  
then look what it does on the third– fourth and fifth. and that's right  
where we're going. on the quarter. [during the time the CAPT was  
speaking, the 2M interjects, "yeah" and a "yeah I saw that."]

**2M**

14:06:23.5 uh huh.  
14:06:24.9

**CAPT**

14:06:25.2 \* \* .  
14:06:25.9

**2M**

14:06:26.4 all (lightly) loaded in that case (it) gets even worse.  
14:06:31.7

**CAPT**

14:06:31.2 so I just put it out there (see what happens).  
14:06:34.2

**M1/M2**

14:13:33.5 [The CAPT and 2M were having small talk about cooking and seafood  
14:14:57.7 just prior to the sécurité being heard on the VHF radio (below). The  
radio had been increased in volume once the sécurité was heard.]

## Secondary and Electronic Communications



## Primary Communications

**ALL CHAN.**

14:14:57.7

14:14:58.0

[Area of non-pertinent conversation or no conversation.]

**2M**

14:15:40.9

14:15:43.3

aircraft he said? oh wow.

**CAPT**

14:15:43.9

14:15:44.5

wow.

**2M**

14:15:44.5

14:15:49.0

so hurricane warnings for– ohhh exactly. [sound of chuckle]

**CAPT**

14:15:48.5

14:15:48.9

yeah.

**2M**

14:15:49.3

14:15:50.7

Abaco Island.

**CAPT**

14:15:50.5

14:15:53.0

yep. they have all those right here written up.

## Secondary and Electronic Communications

**USCG-VHF**

14:14:58.0

14:15:40.9

sécurité. sécurité. sécurité. \* \* \* the National Hurricane Center has issued a hurricane warning for the central Bahamas. including Cat Island– Exuma– Long Island– Rum Cay– San Salvador. the National Hurricane Center has issued a hurricane watch for northwestern Bahamas including the Abaco– the (Canary) Islands– Bimini– (Elliotbrook)– Grand Bahama Island and New Providence. the Coast Guard requests all \* mariners use extreme caution for \* \*. the United States Coast Guard aircraft standing by on channel sixteen.

**Primary Communications**

**CAPT**

14:15:53.6  
14:15:54.4

alrighty.

**CAPT**

14:15:58.6  
14:16:03.5

just waiting for another– another uhh weather file.

**2M**

14:16:05.2  
14:16:18.2

I sent a weather report I hope it works 'cause I've never had to do it before. oh but it's for fourteen hundred and eighteen hundred weather report. uh (send as) an email (I guess) \* \* .

**CAPT**

14:16:18.0  
14:16:20.0

yup. email it out.

**CAPT**

14:16:54.9  
14:17:06.7

\* so– by two o'clock– on your watch– you should be south of this monster.

**2M**

14:17:06.8  
14:17:14.5

yeah it seems like we're gunna get through it pretty quick. by uh tomorrow afternoon– should have it all \* .

**CAPT**

14:17:15.9  
14:17:17.1

\* .

**Secondary and Electronic Communications**

**SUP-1-UHF**

14:15:54.5  
14:15:55.6

thank you guys.

**VHF-?**

14:16:20.0  
14:16:21.7

\* \* \* .

**VHF-?**

14:16:22.3  
14:16:25.3

\* \* \* . [The cadence of the call was consistent with the USCG hailing a vessel. The vessel's name was unintelligible.]

## Primary Communications

**2M**

14:17:17.0

through it in the middle of the night.

14:17:19.0

**CAPT**

14:17:19.7

(should be).

14:17:20.5

**2M**

14:17:20.3

and do you want me to just steer the most– course that's the most comfortable ride or just stay on course– stay on track?

14:17:30.0

**CAPT**

14:17:30.4

umm I will be up the entire night for the most part– be up there– once we start gettin' into the #. pick a course– and then we'll just pass that (along) \* (all) throughout the night. yea you will have some– some direction and it's all pending on how the weather is (out).– here. good question. no– you may just steer one-two-five. or we may just steer one-three-zero. not steer to make good. just steer. get us through the storm. weather ride– and then in the morning when we can see what's going on (we decide) to steer back \* \*. [during the time the CAPT was speaking, the 2M commented in agreement, "yea," "okay" etc.]

14:18:10.8

**2M**

14:18:10.5

cause we've (done that).

14:18:12.5

**CAPT**

14:18:12.7

yeah.

14:18:13.5

**2M**

14:18:13.8

\* (@AB-3/Jax) to west coast for the Alaska runs with this ship actually so he knows real well how this ship handled \* \* (he) remembered on the *El Morro* (horrendous) \* \*.

14:18:27.8

**CAPT**

14:18:27.8

yeah.

14:18:28.5

**2M**

14:18:29.3

might as well (be/get) comfortable.

14:18:31.1

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

14:18:32.6

yeah.

14:18:32.9

**2M**

14:18:33.1

he had much experience (in/with) the weather.

14:18:36.3

**CAPT**

14:18:36.7

tha– that's good.

14:18:37.9

**2M**

14:18:40.7

with weather with this particular ship.

14:18:42.5

**CAPT**

14:18:43.0

oh. \* \* .

14:18:44.2

**CAPT**

14:19:29.9

well I'm gunna go ah watch a little television I think.

14:19:33.4

**2M**

14:19:34.1

m'kay– the Weather Channel?

14:19:37.8

**CAPT**

14:19:39.4

put it on my...

14:19:42.3

**ALL CHAN.**

14:19:42.3

[Area of non-pertinent conversation or no conversation.]

14:25:25.3

**AB-2**

14:25:25.3

it's all whitecaps now. and the swell's growing.

14:25:29.2

**2M**

14:25:30.5

umm.

14:25:31.5

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

14:25:31.4

in a few minutes.

14:25:32.8

**2M**

14:25:34.2

\* \* pickin' up— on our watch.

14:25:37.4

**AB-2**

14:25:38.6

\* \*. I knew it. I knew it.

14:25:42.0

**2M**

14:25:42.0

\* \* \* more annoying. just so we can figure out what course to steer to make a more comfortable ride.

14:25:50.6

**AB-2**

14:25:53.1

yeah we can figure it out (and let you know).

14:25:55.4

**2M**

14:26:11.7

probably gunna be up the whole time (but) at the very beginning once the weather starts in. the (swells) start.

14:26:19.5

**AB-2**

14:26:23.9

\* (knew it was gunna) start sooner or later.

14:26:25.1

**ALL CHAN.**

14:26:25.1

[Area of non-pertinent conversation or no conversation.]

14:38:56.8

## Secondary and Electronic Communications

## Primary Communications

### ALL CHAN.

14:47:58.9 [Area of non-pertinent conversation or no conversation.]  
14:50:47.2

### 2M

14:50:47.2 the light bulbs *El Yunque* left us?  
14:50:49.4

### AB-2

14:50:51.6 all broke?  
14:50:52.5

### 2M

14:50:52.7 just this one.  
14:50:53.7

### 2M

14:50:56.5 but this is this is how things are treated between the ships and the  
14:51:08.1 office. (there's) # no light bulbs around (great/this place). sure *El Yunque* didn't mean to give us a broken one.

## Secondary and Electronic Communications

### USCG-VHF

14:38:56.8 sécurité. sécurité. sécurité. all stations. all stations.  
14:39:46.7 all stations. this is the United States Coast Guard  
channel sixteen. the National Hurricane Center  
has issued a hurricane warning for the central  
Bahamas including Cat Island– (the Eleutheras)–  
Long Island– Rum Cay and San Salvador. The  
National Hurricane Center has issued a hurricane  
watch for north(west) Bahamas– including  
Abacos– (Berry) Island– Bimini– Eleuthera– Grand  
Bahama Island– and (new providence). The Coast  
Guard requests all mariners \* extreme caution \* \* .  
the Coast Guard is standing by on channel  
sixteen. out.

### USCG-VHF

14:47:51.3 \* \* \*. [unintelligible USCG aircraft transmission.]  
14:47:58.9

## Primary Communications

**2M**

14:51:12.8 \* \* (in the) office.  
14:51:15.3

**ALL CHAN.**

14:51:15.3 [Area of non-pertinent conversation or no conversation.]  
15:15:14.3

**ALL CHAN.**

15:15:27.6 [Area of non-pertinent conversation or no conversation.]  
15:19:59.3

**2M**

15:19:59.3 it's that time– *El Yunque's* way off abeam of us. \* thirty miles out. they  
15:20:05.8 were they're on our actual course line.

**2M**

15:20:08.7 they're here– they're abeam of us right now.  
15:20:11.4

**AB-2**

15:20:21.6 it's way out (there/now).  
15:20:22.8

**2M**

15:20:22.5 they're doing twenty-two knots.  
15:20:24.1

## Secondary and Electronic Communications

**UHF?/VHF?**

14:51:02.3 \* \* \*. [unintelligible brief UHF or VHF radio  
14:51:04.4 transmission.]

**UHF?/VHF?**

14:51:06.7 \* \* \*. [unintelligible brief UHF or VHF radio  
14:51:08.2 transmission.]

**SXM-RDO**

15:15:14.3 [a teaser played for news coverage of Hurricane  
15:15:27.6 Joaquin.]

**VHF?/UHF?**

15:20:20.9 [sound similar to brief UHF or VHF radio static.]  
15:20:21.4

## Primary Communications

**AB-2**

15:20:26.3  
15:20:28.4

they gettin'— they gunna get (here) and get out.

**2M**

15:20:28.4  
15:20:29.0

yup.

**2M**

15:20:31.6  
15:20:35.1

uhhh (they're) \* \* thirty-one miles.

**ALL CHAN.**

15:20:34.8  
15:28:22.6

[Area of non-pertinent conversation or no conversation.]

**2M**

15:28:22.6  
15:28:24.5

he's headed to Jacksonville.

**2M**

15:28:28.7  
15:28:31.7

they're tryin' to get away from the storm too.

**AB-2**

15:28:34.1  
15:28:37.3

nobody in their right mind would be drivin' into it.

**2M**

15:28:38.9  
15:28:42.2

we are. [sound of laughter] Yaaay. [sarcastically exclaimed]

**AB-2**

15:28:42.3  
15:28:44.9

(*El Yunque*) \* \*. interesting.

## Secondary and Electronic Communications

**VHF?/UHF?**

15:20:29.9  
15:20:31.7

\* \* \*. [brief unintelligible UHF or VHF radio transmission.]

**VHF?/UHF?**

15:20:33.8  
15:20:34.8

[brief unintelligible UHF or VHF radio transmission.]



## Primary Communications

**AB-2**

15:28:46.3

15:28:49.0

\* \* that storm \* head (of 'em).

**2M**

15:28:49.0

15:28:49.9

[sound of yawn]

**AB-2**

15:28:52.6

15:29:03.8

it'll be like that last one we did. just barely \* (missed) \* \* (little old) \* \*  
status. this storm (can be) real \*.

**2M**

15:29:04.0

15:29:05.8

(it's) a reaaal (thing/thin/thick).

**AB-2**

15:29:12.9

15:29:17.3

here comes the clouds– there goes the T-V.

**2M**

15:29:17.5

15:29:19.2

[sound of low laugh]

**AB-2**

15:29:21.5

15:29:24.6

\* \* \*. [unintelligible comment stepped on by a UHF or VHF radio  
transmission.]

**2M**

15:29:28.6

15:29:33.3

\* really thick storm– rain clouds yeah. [2M then went on to speak about  
her experience with satellite TV and the loss of coverage in rainstorms.]

**ALL CHAN.**

15:29:33.3

15:31:02.2

[Area of non-pertinent conversation or no conversation.]

**2M**

15:31:02.2

15:31:15.5

(alright) so I called 'em up yesterday. I didn't get much sleep yesterday  
because I was on the phone with everyone. the fuel company canceled  
my account fuel up that thing– I'm not payin' for somebody else's fuel.  
[2M then began talking about her dissatisfaction with a television  
service provider and the frustration of negotiating terms of a television  
contract.]

## Secondary and Electronic Communications

## Primary Communications

### ALL CHAN.

15:31:15.5 [Area of non-pertinent conversation or no conversation.]  
15:32:16.1

### AB-2

15:32:16.1 well the *El Yunque's* out here with us.  
15:32:18.3

### 2M

15:32:18.3 yeah– yeah– they're (uh) they're almost thirty miles out– thirty-one  
15:32:25.8 miles out. (way off to the east) they're on the original trackline.

### CAPT

15:32:31.8 yup. (they) speeded up. they're gunna beat the storm up.  
15:32:36.8

### ?-VHF

15:32:32.1 \* \* \*  
15:32:33.2

### AB-2

15:32:36.6 we're gunna go right into it.  
15:32:38.2

### CAPT

15:32:38.7 seventy miles south of it.  
15:32:40.2

### AB-2

15:32:57.5 they're just gunna speed it up there and get back out.  
15:32:59.8

### 2M

15:33:14.5 they're doing twenty-two knots too. (they're just gunna) [sound of moan  
15:33:24.5 and then brief chuckle] \* \* \* (but what they're gettin' we're gettin')

### 2M

15:33:26.8 (turning out) a lot nicer \* \* .  
15:33:30.2

### CAPT

15:33:38.7 well they're gunna have quite a ride.  
15:33:40.7

## Secondary and Electronic Communications

## Primary Communications

### CAPT

15:33:41.9 wind will be on their quarter.  
15:33:45.2

### 2M

15:33:45.4 mmm.  
15:33:46.5

### AB-2

15:33:48.2 \* \* \*  
15:33:52.1

### ALL CHAN.

15:33:52.1 [Area of non-pertinent conversation or no conversation.]  
15:38:02.9

### 2M

15:38:02.9 how do the umm Polish guys order food? do they just read the menu?  
15:38:07.8

### AB-2

15:38:10.5 the cook or the steward \* (comes out) and goes “do you want fish or  
15:38:25.3 meat?– meat or fish? meat or fish?” and they all go “fish! fish! fish! fish!”  
[sound of laughter.]

### 2M

15:38:21.7 [sound of laughter.]  
15:38:23.1

### AB-2

15:38:34.2 gotta talk to them for a minute to figure out what they want. but usually  
15:38:41.0 one eats fish they all want \* \*.

### 2M

15:38:42.7 umm Poland is that a thing– (I kind of think) \* fish products \* \* in  
15:38:48.4 Poland.

### AB-2

15:38:50.6 poland? # \* \* #.  
15:38:57.9

## Secondary and Electronic Communications

## Primary Communications

**2M**

15:39:01.6  
15:39:05.5

\* \* \*

**AB-2**

15:39:09.0  
15:39:11.3

might have it figured out down there.

**2M**

15:39:11.4  
15:39:13.5

(they have their) \* \* down there too.

**AB-2**

15:39:13.9  
15:39:15.9

\* \* \*

**2M**

15:39:15.4  
15:39:19.1

\* \* \* (our course switched).

**AB-2**

15:39:20.0  
15:39:22.4

\* \* sometimes.

**M1/M2**

15:40:11.1  
15:40:22.9

[sound similar to grinding.]

**2M**

15:40:22.8  
15:40:25.3

\* \* involved (in that) grinding.

**2M**

15:40:27.8  
15:40:30.3

\* \* \*

**AB-2**

15:40:30.8  
15:40:31.9

\* \*

**2M**

15:40:40.5  
15:40:51.4

\* (just got) a new rail [sound of chuckle] (that's good) give us something to hang on to. might survive Alaska.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

15:40:55.4  
15:40:58.1

I [prolonged I sound] don't know.

**2M**

15:40:58.4  
15:41:00.1

mhmm.

**AB-2**

15:41:17.9  
15:41:19.1

are you awake?

**2M**

15:41:22.5  
15:41:24.2

where the # are my numbers?

**2M**

15:41:30.2  
15:41:31.6

I've got eighty-five.

**2M**

15:41:37.9  
15:41:40.0

uhhh \* \* .

**AB-2**

15:41:40.1  
15:41:40.9

(oh).

**2M**

15:41:54.8  
15:41:56.1

\* \* .

**ALL CHAN.**

15:41:56.1  
15:45:30.5

[Area of non-pertinent conversation or no conversation.]

**CM**

15:45:30.5  
15:45:32.5

\* up here \* .

**2M**

15:45:33.0  
15:45:35.3

yeah I have that flag up to block the sun.

## Secondary and Electronic Communications

## Primary Communications

**2M**

15:45:37.6  
15:45:39.1

I got all the charts.

**CM?**

15:45:39.4  
15:45:39.9

okay.

**CM?**

15:45:40.6  
15:45:42.0

on that list? good.

**2M**

15:45:42.1  
15:45:43.4

all accounted for.

**CM**

15:45:43.7  
15:45:48.5

\* \* let me have the list back so I know which chart it is.

**2M**

15:45:49.0  
15:45:54.0

oh I put in my third– second mate folder up there.

**CM**

15:45:53.8  
15:45:55.2

want a copy of it?

**2M**

15:45:55.5  
15:46:01.5

yeah I uh (put in) (a / our) (needed requisition). \* \* \* this one.

**CM**

15:46:00.9  
15:46:02.6

the packing list here.

**2M**

15:46:05.8  
15:46:15.4

and it's (needed) requisitions. okay it's in there. \* \* this \*.

**CM**

15:46:14.4  
15:46:17.6

thanks. I'll give it back to you later. (or) I'll just make a copy.

## Secondary and Electronic Communications

## Primary Communications

**2M**

15:46:16.3

just leave it in there– yeah.

15:46:17.7

**2M**

15:46:18.4

umm we're steerin' one-three-eight. @2AE called (us) he's blowin' soot.

15:46:21.3

**CM**

15:46:21.0

okay.

15:46:21.7

**2M**

15:46:21.4

one-three-eight. max R-P-M.

15:46:26.4

**CM**

15:46:26.2

what's the traffic.

15:46:27.1

**2M**

15:46:27.4

uhh just this one guy val– vaduh– *Val/va?*

15:46:31.7

**CM**

15:46:31.9

okay I see it. I see it.

15:46:32.5

**2M**

15:46:33.7

it says *Val/va*. umm headed to Jacksonville.

15:46:36.7

**CM**

15:46:36.3

okay.

15:46:36.9

**2M**

15:46:36.6

and wind is increasing. we're doing weather every hour.

15:46:41.3

**CM**

15:46:37.2

and uhhh.

15:46:38.3

## Secondary and Electronic Communications

## Primary Communications

**CM**

15:46:40.2

any change?

15:46:41.3

**2M**

15:46:42.2

the. here. still comin' right for us or we're headed right for it. um the swell has been about the same— about eight feet— six to eight feet. from the east.

15:46:52.1

**CM**

15:46:52.0

do doing any logging?

15:46:53.6

**2M**

15:46:54.0

yes. just to be aware. \* \*.

15:46:56.7

**CM**

15:46:54.7

okay we're not transmitting.

15:46:56.4

**2M**

15:46:56.9

no.

15:46:57.2

**2M**

15:46:57.7

umm but the wind has started to pick up more.

15:47:01.5

**CM**

15:47:01.2

yeah.

15:47:01.6

**2M**

15:47:02.9

and we are— the captain has a new route. he did this morning I guess.

15:47:08.0

**CM**

15:47:07.4

I did it.

15:47:08.0

## Secondary and Electronic Communications



## Primary Communications

**2M**

15:47:08.1 oh you did it. oh okay. um let's (pull up) the radar.  
15:47:11.9

**CM**

15:47:11.9 this is my...  
15:47:12.9

**2M**

15:47:12.9 oh okay.  
15:47:13.8

**CM**

15:47:13.9 \* (my input).  
15:47:15.6

**2M**

15:47:15.9 of course it looks like a \* on the chart.  
15:47:18.1

**CM**

15:47:17.8 but those are the waypoints.  
15:47:19.1

**2M**

15:47:19.0 okay.  
15:47:19.5

**CM**

15:47:19.7 and they're in there.  
15:47:20.8

**2M**

15:47:20.8 alright. yeah.  
15:47:22.0

**CM**

15:47:21.3 \* \* I created a route.  
15:47:23.2

**2M**

15:47:22.8 perfect.  
15:47:23.5

## Secondary and Electronic Communications

## Primary Communications

**CM**

15:47:23.5  
15:47:26.4

\* \* (I) can take it from here.

**2M**

15:47:26.4  
15:47:42.8

well we're on— on the track right now. and uhhh one-three-eight. so the boatswain is \* \* the boatswain and his (merry) men (said that) he went down and uh tightened up the lashings on second deck.

**CM**

15:47:43.0  
15:47:48.4

yeah they should have been workin' on the uh \* \* the midship trailer. you'll get good beam \*.

**2M**

15:47:44.6  
15:47:47.0

okay so he's still on...

**2M**

15:47:48.4  
15:47:50.3

I did— I did main deck.

**CM**

15:47:49.9  
15:47:50.9

yeah that's all I (did).

**2M**

15:47:50.4  
15:47:52.4

oh okay. yeah. I know you did it.

**CM**

15:47:52.3  
15:47:57.5

I told him do second deck you (do main/two "B")— (once he gets back up) \* \* \*.

**2M**

15:47:54.7  
15:47:54.9

yeah.

**2M**

15:47:57.4  
15:47:58.9

okay. perfect.

## Secondary and Electronic Communications

## Primary Communications

**CM**

15:47:58.7 (secure for/stay clear)– secure for sea then we'll log the hourly  
15:48:05.7 (weather) here and I got this. thanks.

**2M**

15:48:00.2 \* \* .  
15:48:00.9

**2M**

15:48:04.8 okay.  
15:48:05.3

**2M**

15:48:05.9 (I'll be up here) \* \* .  
15:48:08.0

**CM**

15:48:08.5 @AB-2.  
15:48:09.0

**AB-2**

15:48:09.8 (uhh yeah).  
15:48:11.2

**AB-2**

15:48:12.9 another day at sea.  
15:48:14.6

**CM**

15:48:16.2 (gettin'/the) wind on the stern?  
15:48:17.5

**AB-2**

15:48:18.1 naww– it's (all) it's outta here.  
15:48:21.5

**ALL CHAN.**

15:48:21.5 [Area of non-pertinent conversation or no conversation.]  
15:48:55.3

**AB-2**

15:48:55.3 *El Yunque's* out there off our port about thirty-one miles.  
15:48:59.2

## Secondary and Electronic Communications

## Primary Communications

### CM

15:48:59.9  
15:49:00.6  
alright.

### ALL CHAN.

15:49:00.6  
15:50:39.7  
[Area of non-pertinent conversation or no conversation.]

### M1

15:50:53.4  
15:50:55.5  
[sound similar to electronic key entry.]

## Secondary and Electronic Communications

### CM-VHF

15:50:39.7  
15:50:42.1  
*El Yunque. El Faro.*

### CM-EY-VHF

15:50:47.9  
15:50:50.1  
*El Faro this El Yunque.*

### CM-VHF

15:50:50.5  
15:50:52.1  
one-zero.

### CM-EY-VHF

15:50:52.2  
15:50:53.8  
one-zero.

### CM-VHF

15:50:55.6  
15:50:56.9  
hello @CM-EY.

### CM-EY-VHF

15:50:57.8  
15:50:59.7  
\* \* \*

### CM-VHF

15:50:59.8  
15:51:09.3  
how you doin'? umm I wanted to say thanks for the light bulbs uhhh and did you find the uhhh– the uhhh– little tarp for the bridge wing?

## Primary Communications

### CM-EY-VHF

15:51:10.2

15:51:21.6

### CM-VHF

15:51:21.8

15:51:25.7

### CM-EY-VHF

15:51:26.4

15:51:34.4

### CM-VHF

15:51:34.8

15:51:42.3

### CM-EY-VHF

15:51:43.4

15:51:53.6

### CM-VHF

15:51:53.7

15:52:00.5

### CM-EY-VHF

15:52:00.8

15:52:03.0

### CM-VHF

15:52:03.1

15:52:05.1

### CM-EY-VHF

15:52:06.1

15:52:07.3

### CM-RDO

15:52:07.6

15:52:11.5

## Secondary and Electronic Communications

\*\* I (found/saw) the tarp there \*\* but I did not go up there \*\*\* the plastic one right? da- da- da tarp (broke) \*\*\*.

yeah it was a blue tarp thing that that looked like a replacement or spare.

okay. yeah I saw it. I'll leave one with uh @TMJAX1 \* I think the uhh \*\*\*.

ah nice thanks I appreciate that. uh yeah. @TMJAX1 came down to the ship and just – he – he played @TMJAX2 perfectly.

roger. roger that. \*\*\*

okay. thank you. that's uhhh– greatly appreciated– I uh– thank you again.

\*\*\*.

hey one of those light bulbs was broken. [sound of loud chunk after the VHF radio transmission breaks.]

oh was it?

yeah I think \* was I hear this jingle jingle like "whaaaaa?"

## Primary Communications

### CM-EY-VHF

15:52:11.4

15:52:17.7

### CM-VHF

15:52:17.8

15:52:19.3

### CM-EY-VHF

15:52:20.2

15:52:25.6

### CM-VHF

15:52:25.9

15:52:29.3

### CM-EY-VHF

15:52:29.4

15:52:34.3

### CM-VHF

15:52:35.1

15:52:42.3

### CM-EY-VHF

15:52:43.1

15:52:53.0

### CM-VHF

15:52:53.5

15:53:03.4

### CM-EY-VHF

15:53:04.5

15:53:07.5

### CM-VHF

15:53:07.8

15:53:14.1

## Secondary and Electronic Communications

\* \* be in the uh the pouch. so uh— \* sorry about that.

I was just messin' with ya. [spoken during a chuckle]

so that's what you want uh— you want your money back. your money back \* \* \* back.

yeah the captain said something about gettin' our money back. right.

\* \* \* don't cost ya \* \* \*.

so yeah thanks again. I really appreciate it. uh— ya know we're watching the weather. uh you guys are all in the clear right?

yes (don't worry) we sped up uh (just ahead) \* \* (sped up) \* \* the storm. \* \* \*.

and that's why we're not uh— side by side here. 'cause we— we're tryin' to give it an extra thirty to fifty miles from the predicted center as we uh scoot around here.

\* \* it. go through it.

[sound of chuckle.] roger. yeah uh— been there. no thanks.

## Primary Communications

**CM-EY-VHF**

15:53:14.6

15:53:20.3

**CM-VHF**

15:53:22.2

15:53:29.7

**CM-EY-VHF**

15:53:30.4

15:53:38.6

**CM-VHF**

15:53:38.5

15:53:42.7

**CM-EY-VHF**

15:53:44.3

15:53:49.4

**CM-VHF**

15:53:52.6

15:53:57.0

**CM-EY-VHF**

15:53:59.1

15:54:03.5

**CM-VHF**

15:54:04.0

15:54:10.2

**CM-EY-VHF**

15:54:10.3

15:54:13.2

**CAPT-EY-VHF**

15:54:16.7

15:54:21.4

## Secondary and Electronic Communications

yeah. no problem. yeah– yeah \* \* (do that)

ok @CM-EY yeah I jus– I wanted to say hello and thank you very much umm and you know and as always wishin' you well.

roger \* \* \* (thinking about) \* \*. okay \* \* (pleasure again) (chatting. let me know).

yes. thank you. and uhh see ya in– on the way back.

the captain [CAPT-EY] sayin' you are goin' the wrong way (you know) (G-P-S/B-V-S).

no. you know uh– we're really lovin' that uh– B-V-S program now.

okay. (he said) bon-voy-... bon voyage.

and to you my friend. uh that'll be it. I'll standby on sixteen. W-F-J-K out.

stand by stand by– uh captain [CAPT-EY] wants to say hi.

*El Faro*– chief mate @CM– captain @CAPT-EY. how ya doin'?

## Primary Communications

### CM-VHF

15:54:21.8

15:54:26.5

### CAPT-EY-VHF

15:54:27.1

15:54:35.5

### CM-VHF

15:54:36.0

15:54:46.2

### CAPT-EY-VHF

15:54:47.8

15:55:16.3

### CM-VHF

15:55:16.8

15:55:21.5

### CAPT-EY-VHF

15:55:22.7

15:55:31.2

## Secondary and Electronic Communications

ohhh– ah very well thanks. nice to hear from you.  
oh you're gettin' off in a day?

yeah I am. seems like I– I never know where I'm  
goin' next. so we'll see what they have in store for  
me.

roger that. are you uh are you actually without a  
plan? I mean uhh is there any chance you might  
be my relief on here when my seventy days is up  
and \* \* ?

yeah uh– I guess uh anything and everything could  
happen. I– they haven't uhhh– they haven't told  
me anything you know. kinda like the way they left  
me down uhhh– down there in San Juan for three  
days. so no– no uhhh– they just said "go to that  
ship" uh you know. next thing I know you know I'm  
hangin' out at the beach (all day) so anyway. I– the  
short answer is no– I don't– I have no idea.

roger that. yeah all expenses paid. umm \* \* \*.

okay. well I just wanted to say hi and you know I  
appreciate all the information you all the help you  
gave me and uh– over there.



## Primary Communications

### ALL CHAN.

15:56:27.5 [Area of non-pertinent conversation or no conversation.]  
15:57:58.1

### AB-1

15:57:58.1 what's the– the word on the– the hurricane or whatever?  
15:58:01.2

## Secondary and Electronic Communications

### CM-VHF

15:55:31.5 roger that. yeah I– I got your personal contact and  
15:55:57.9 you know it's eh– I– I don't think I'm gonna be  
workin' eight– nine months straight um you know  
through the end of April May. umm. and I don't I  
don't know what group they're plannin' to do what  
with so. you know I'll– I'll uh I'll let you know or you  
let me know if you're available around uh– uh I  
guess two months from now.

### CAPT-EY-VHF

15:55:58.0 alright @CM well– uh you guys have a safe  
15:56:12.5 voyage and uh– I guess I'll see ya about this spot  
in uh a few days. alright. the uhh– *El Yunque* clear  
channel one-zero.

### CM-VHF

15:56:13.2 this *El Faro* roger– but uhh– I thought you we're  
15:56:16.3 gettin' off.

### CAPT-EY-VHF

15:56:17.3 yeah I'm– I'm gettin' off. said they'll see you in a  
15:56:21.7 couple days. [sound of laughter from CM during  
radio transmission.]

### CM-VHF

15:56:22.0 roger. oh THEY will– roger that. okay. yup. *El Faro*  
15:56:27.5 W-F-J-K. out.

## Primary Communications

**CM**

15:58:01.6

15:58:40.5

uh– the word is pretty much what we knew this morning. we're– we're– we're on this intercepting and we've diverting to the south a little kind of take it wide and stay out of the– the deeper swells. and uh we– we could we're predicting uhh forty knot winds umm on our starboard beam. tonight. no– no– it's on the stern now thirty. (oh boy/or forty) we're looking at fifty knots on the starboard beam. the latest and greatest.– but that's not hurricane force.

**AB-1**

15:58:45.1

15:58:48.3

so this gunna start around 'bout when we get off watch?

**CM**

15:58:49.2

15:58:52.8

well let me look let me step it out here in times.

**CM**

15:58:55.5

15:59:05.3

the uhh– zero zero zulu is uh– twenty-hundred. yep. we should have thirty knots on the port quarter.

**CM**

15:59:10.2

15:59:25.2

three hours after that– twenty-three hundred. forty knots.– zero-one hundred. zero-two hundred. fifty knots on the starboard beam.

**AB-1**

15:59:25.3

15:59:25.9

\*.

**CM**

15:59:28.2

15:59:40.0

and then– nine minus– zero-five. we're up here should be settlin' down (round about) thirty-five on the starboard.

**CM**

15:59:42.3

15:59:42.9

yup.

**M1/M2**

15:59:45.3

16:00:03.2

[sound similar to hourly GPS alarm activating.]

## Secondary and Electronic Communications

## Primary Communications

**CM**

15:59:50.2 yeah if we had stayed on our track original– we would have been dead  
15:59:56.1 center. \* \*.

**AB-1**

15:59:55.9 \*.  
15:59:56.7

**CM**

15:59:58.0 (I mean) hurricane (this/it is).  
16:00:01.1

**CM**

16:00:04.0 [sound similar to burp] excuse me.  
16:00:05.4

**AB-1**

16:00:42.1 arrival's still six thirty?  
16:00:43.6

**CM**

16:00:44.9 uh this seven twenty-two right now but we're actually slowin' down for  
16:00:53.7 tubes so I can't read that right now. we speed back up we'll see.

**AB-1**

16:00:55.8 yup.  
16:00:56.2

**CM**

16:00:56.2 we might make it yeah five six. we're not diverging that much in  
16:01:05.1 distance. just a little uh– a little uh (dip) in here.

**CM**

16:01:09.6 I have Elbow Cay in the radar– did \* \* \*?  
16:01:12.8

**CM**

16:01:15.7 (just the/is this) the (land).  
16:01:17.0

**ALL CHAN.**

16:01:17.0 [Area of non-pertinent conversation or no conversation.]  
16:03:24.1

## Secondary and Electronic Communications

## Primary Communications

**CM**

16:03:24.1 yeah we're gunna lose T-V about when we get off watch.  
16:03:27.4

**AB-1**

16:03:27.2 yeah I figure that \* cause we had to divert.  
16:03:29.9

**ALL CHAN.**

16:03:29.9 [Area of non-pertinent conversation or no conversation.]  
16:08:44.3

**CAPT**

16:08:44.3 that's a pretty healthy swell buildin' there chief mate.  
16:08:48.9

**CM**

16:08:50.3 not totally unexpected.  
16:08:52.3

**CAPT**

16:08:51.6 nope.  
16:08:52.4

**CM**

16:08:52.4 it's on the port quarter \*.  
16:08:55.1

**CAPT**

16:08:54.6 as expected.  
16:08:55.5

**CAPT**

16:08:56.8 yeah I like the period of the swell too. ride nicer without...  
16:09:01.4

**CM**

16:09:01.4 we are really comfortable actually.  
16:09:03.5

**CM**

16:09:05.2 see that one o'clock \*. oh (that's on the third).  
16:09:010.0

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

16:09:11.3  
16:09:13.1

\* (right here).

**CM**

16:09:14.1  
16:09:15.1

help our speed?

**CAPT**

16:09:15.5  
16:09:17.3

that's what I told everybody.

**CM**

16:09:16.3  
16:09:18.7

get us down there on time. [spoken through a laugh]

**CAPT**

16:09:20.2  
16:09:39.2

well I sent 'em eight o'clock. and umm [sound of throat being cleared] figurin' that we would lose some speed and that I would update tomorrow once we were on the backside. but in case anybody's wondering— always give 'em an E-T-A you can make. (or/why) tell 'em (five/why) if you can't be there. got a storm comin' up.

**CM**

16:09:39.7  
16:09:42.1

told 'em six then eight o'clock.

**CAPT**

16:09:42.2  
16:09:45.9

\* \* \*.

**CM**

16:09:45.9  
16:09:48.4

(sounds better). make money.

**CAPT**

16:09:49.0  
16:09:58.2

(it is/lose) money. and then uh— for the northbound \* I wanna come home the uhh Old Bahama Channel

**CM**

16:09:60.0  
16:10:01.4

\* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

16:10:01.9 well if you look at that and follow it up  
16:10:04.1

**CM**

16:10:03.9 it just sits and sits and sits.  
16:10:05.8

**CAPT**

16:10:06.9 comes down on the Caribbean eh– islands there– it just flattens out you  
16:10:16.4 know four (point) I mean four meters swell. you know on the \* yeah.

**CM**

16:10:08.6 yeah. yeah.  
16:10:10.4

**CM**

16:10:17.2 yeah. yeah. it's (due/do)...  
16:10:18.5

**CAPT**

16:10:17.2 it'll be a miserable ride.  
16:10:18.9

**CM**

16:10:20.0 I do see what you mean. even if it's as it's traveling north we're gunna  
16:10:25.5 have that beam swell.

**CM**

16:10:26.3 yeah.  
16:10:26.8

**CAPT**

16:10:26.9 right. (let's us/we'll just) duck inside. hundred and sixty miles more.  
16:10:30.6

**CM**

16:10:30.9 yeah.  
16:10:31.5

## Secondary and Electronic Communications

**UHF?/VHF?**

16:10:00.3  
16:10:01.4

\* \* \*. [sound of unintelligible VHF or UHF radio transmission.]

## Primary Communications

**CM**

16:10:33.4

yeah. I like that way.

16:10:34.7

**CAPT**

16:10:34.8

this precaution takes all that-- out of the scenario. and I'll I'll wait to hear from (you).

16:10:44.5

**CAPT**

16:10:45.5

(we all agree to that).

16:10:47.3

**CAPT**

16:10:48.6

because it does add a hundred and sixty miles.

16:10:50.7

**CM**

16:10:50.7

yeah but we're-- we're not rushin' on the time so \* \* .

16:10:54.1

**CAPT**

16:10:53.4

I explained that. (yeah).

16:10:56.2

**CM**

16:10:55.7

\* \* not \* \* .

16:10:57.5

**CAPT**

16:10:58.7

but I wanna ask before I just take off and do it.

16:11:01.7

**CM**

16:11:02.4

sure.

16:11:02.9

**CAPT**

16:11:02.9

plenty of time in advance.

16:11:05.0

**CM**

16:11:07.6

you know the islands in the bay off Honduras?

16:11:10.2

## Secondary and Electronic Communications

## Primary Communications

**CM**

16:11:12.7

pretty little islands.

16:11:13.5

**CM**

16:11:15.2

(this/it's) pretty quick— long story short.— second mate decided to go inside the islands just to look— without asking the captain. [spoken during a chuckle]— I mean there's a track? right?

16:11:25.8

**CAPT**

16:11:25.6

yeah.

16:11:26.2

**CM**

16:11:26.4

he decided to go around the island on the other side of the island.— just laid it out and did it. and the captain said "where the hell— what the hell \* \* \*?" "I just wanted to see what it looked like."

16:11:36.0

**CM**

16:11:41.2

to me that was outrageous.

16:11:43.3

**CAPT**

16:11:43.5

when \* \* \* (ask somebody else).

16:11:46.2

**CM**

16:11:46.5

\* \* \*. [sound of chuckling]

16:11:49.2

**CAPT**

16:11:49.6

you can't even get mad a guy like that— you gotta look at 'em and go "really?"

16:11:55.1

**CM**

16:11:54.7

[the CM tells another story related to the same mate not related to the navigation of a ship.]

16:13:06.8

**CM**

16:13:06.9

I mean when we had time to kill between Honolulu and Hilo we went around the outside of the islands so we can watch the lava flow.

16:13:15.4

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

16:13:15.2

oh. okay yeah.

16:13:16.4

**CM**

16:13:16.0

but– but– but that was the captain's decision. [chuckle] you know we had time to kill– you know so...

16:13:22.2

**CAPT**

16:13:25.2

(here) mate– watch this watch this thing now.

16:13:27.5

**CM**

16:13:27.1

yeah.

16:13:27.8

**CAPT**

16:13:34.2

watch this thing morph like on the third fourth and fifth.

16:13:39.1

**CAPT**

16:13:43.8

it then like exxxplodes. [the word “explodes” was spoken in prolonged manner.]

16:13:46.2

**CM**

16:13:47.2

oh I see. \* gettin' bigger.

16:13:49.6

**CAPT**

16:13:49.5

ok so now– now we're there.

16:13:51.3

**CM**

16:13:51.0

okay.

16:13:51.3

**CAPT**

16:13:51.3

now we're gunna turn around and come back.

16:13:53.4

**CM**

16:13:53.3

yeah yeah yeah.

16:13:53.8

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

16:13:53.5

okay.

16:13:54.0

**CAPT**

16:13:54.7

we got E-T-A on the fifth.

16:13:56.7

**CAPT**

16:14:07.9

\* keep that initial. slightly different from mine.

16:14:13.2

**CM**

16:14:14.5

are we the latest or you?

16:14:17.4

**CAPT**

16:14:18.0

uh– I think I have the latest.

16:14:20.0

**CM**

16:14:20.1

\* \* \*.

16:14:21.4

**CAPT**

16:14:21.4

uhhh– no actually they're both the same because– \* \* .

16:14:25.8

**CAPT**

16:14:27.2

cause I (sent/said/set) this laptop \* \* \*.

16:14:29.2

**CM**

16:14:32.8

that aint the last \* \* updated data.

16:14:35.1

**CM**

16:14:35.8

should be the latest.

16:14:36.9

**CAPT**

16:14:36.5

\* \* \*.

16:14:40.0

## Secondary and Electronic Communications

## Primary Communications

**CM**

16:14:48.9

we'll have we'll have several updates.

16:14:52.1

**CAPT**

16:14:51.4

oh yeah.

16:14:52.4

**CM**

16:14:52.1

between now and then \*.

16:14:54.1

**CAPT**

16:14:56.4

what– what– what I would like to do is get away from this. let this do what it does. suppose it moves up here and stalls and sits. it's probably gonna catch the Gulf Stream and go right up the coast. it certainly warrants a plan of action.

16:15:12.8

**CM**

16:15:14.1

this is (safety/safer).

16:15:16.2

**CAPT**

16:15:17.2

so I threw it out there.

16:15:18.9

**CM**

16:15:22.9

(so) I would expect that anyone in the office would say "absolutely you're the only one you're the one here..."

16:15:29.4

**CAPT**

16:15:29.3

yeah.

16:15:29.7

**CM**

16:15:29.7

"...makin' the decision." \* \*.

16:15:31.5

**CAPT**

16:15:30.9

yeah but you know I'm extending them a professional courtesy and sayin' "hey man– you know– these are some of my thoughts and you got any objection to that– how does that look? as opposed to not..."

16:15:38.9

## Secondary and Electronic Communications

## Primary Communications

**CM**

16:15:39.5  
16:15:40.5

well said.

**AB-1**

16:15:53.9  
16:15:57.0

so what did you say– there could be a chance that we could turn around?

**CAPT**

16:15:57.6  
16:15:58.3

huhhh?

**AB-1**

16:15:58.8  
16:16:00.2

no. I'm just bein' noseey.

**CM**

16:16:00.6  
16:16:01.4

this storm.

**CAPT**

16:16:01.9  
16:16:04.6

oh. no no no. we're not gunna turn around– we're not gunna turn around. [there is a brief unintelligible comment by either CM or AB-1 during the time the CAPT is speaking.]

**CM**

16:16:04.7  
16:16:05.7

so that's it then.

**CAPT**

16:16:06.9  
16:16:11.1

the– the– the storm is very unpredictable– very unpredictable.

**CM**

16:16:07.5  
16:16:09.7

the storm could... [spoken over by the CAPT's comment above.]

**CM**

16:16:11.3  
16:16:14.4

it went high– it went left– it went right– it went back again.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

16:16:14.1 this one in particular is very erratic.  
16:16:16.4

**CM**

16:16:16.2 yeah.  
16:16:16.7

**CM**

16:16:17.4 it's goin' left– it's goin' right– now it's headin'...  
16:16:19.7

**CAPT**

16:16:19.2 now it's more southwest and it turns around and almost does a one-  
16:16:23.6 eighty and it's up north.

**CAPT**

16:16:24.6 so we get away from all that– when we leave San Juan– I wanna come  
16:16:47.6 home Old Bahama Channel. and not even get tangled up with this  
thing– that's continuing to come up the islands just– just off the Florida  
coast gets in the Gulf Stream there and shoots up outta here– it's just  
how do you deal with it? just through the Bahama channel. now uh– I  
asked the office.

**AB-1**

16:16:48.5 any word back yet?  
16:16:49.7

**CAPT**

16:16:50.1 no. cause it's a hundred and sixty more miles. that's more fuel. you  
16:16:55.9 know?

**AB-1**

16:16:56.1 yeah.  
16:16:56.6

**CM**

16:16:57.2 is there a– a real handy table? with the uhhh– specific gravity and the  
16:17:05.7 load line. with the draught thirty-two oh thirty oh two– thirty oh four–  
thirty oh two you know what I mean?

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

16:17:10.6

the ones in there?

16:17:12.1

**CM**

16:17:11.6

is it in here?

16:17:12.5

**ALL CHAN.**

16:17:12.5

[Area of non-pertinent conversation or no conversation.]

16:17:59.0

**CAPT**

16:17:59.0

@2AE blowin' tubes huh?

16:18:00.7

**CM**

16:18:01.2

I used that radian rule— when you're readin' the midship draught. when there's list.

16:18:09.3

**CAPT**

16:18:10.0

ohhh yeah yeah yeah.

16:18:12.0

**CM**

16:18:11.3

the fifty-seven to one ratio to the degree.

16:18:13.6

**CAPT**

16:18:13.7

yah.

16:18:14.3

**CM**

16:18:14.0

yeah how much is a degree and I'm— I'm calculating how many inches to correct that midship draught.

16:18:19.6

**CAPT**

16:18:19.8

yeah.

16:18:20.0

**CM**

16:18:20.7

this. I can't read one on the port side. everywhere I look— there's no secret spot.

16:18:27.6

## Secondary and Electronic Communications

## Primary Communications

**ALL CHAN.**

16:18:27.6

16:20:32.6

[Area of non-pertinent conversation or no conversation.]

**CM**

16:20:32.6

16:20:38.3

I did talk to the chief mate on the *El Faro* [CM likely meant *El Yunque*.] they were thirty miles on a (leeway) \* \*.

**CAPT**

16:20:38.4

16:20:39.0

yup.

**CM**

16:20:40.0

16:20:45.9

just checked on the tarp— it's located in the container in Jacksonville.

**CAPT**

16:20:46.2

16:20:48.4

uh huh. they're really setting us up (solid).

**CM**

16:20:49.5

16:20:51.4

and I said—

**CAPT**

16:21:03.4

16:21:06.8

earlier I thought \* (winds) comin' around behind us.

**CM**

16:21:07.0

16:21:14.4

bout one A-M.— yeah. we'll be down near San Salvador.

**CM**

16:21:16.3

16:21:26.6

crazy but we'll have a lee. if that wind's from the starboard (see that's) \* not a lot of fetch with these islands here.

**CAPT**

16:21:27.7

16:21:31.5

\* block the whole thing out. you got that?

**CM**

16:21:42.8

16:21:43.8

okay.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

16:21:43.8

[sound of throat being cleared.]

16:21:45.0

**CAPT**

16:21:49.6

it's funny huh— how this just comes down and hits this wall (of islands) and stops. (and)—

16:21:56.7

**CM**

16:21:57.2

yeah. that's— that's a— that's weird. [The CM and CAPT then have a short conversation about STCW record keeping.]

16:21:59.5

**ALL CHAN.**

16:21:59.5

[Area of non-pertinent conversation or no conversation.]

16:24:40.0

**CAPT**

16:24:40.0

we can go Old Bahama Channel comin' home.

16:24:41.8

**CM**

16:24:42.2

\* \*. \* \*.

16:24:43.6

**CAPT**

16:24:43.9

so we'll just spread the word from \* (now).

16:24:47.1

**CM**

16:24:46.7

\* tell her when she relieves me for dinner.

16:24:47.9

**CAPT**

16:24:47.9

yeah.

16:24:48.3

**CAPT**

16:24:49.0

I'll see her too but just so it doesn't get lost.

16:24:51.8

**CM**

16:24:51.6

got it.

16:24:52.1

## Secondary and Electronic Communications



## Primary Communications

### **CAPT**

16:24:52.2  
16:24:54.8

old Bahama. [exclaimed] – northbound.

### **AB-1**

16:24:55.3  
16:24:57.6

wooo. [exclaimed] (as we said).

### **AB-1**

16:25:08.6  
16:25:10.7

still should make our E-T-A though right?

### **CM**

16:25:11.4  
16:25:14.1

uhh comin' home yeah– ten forty-five now.

### **CAPT**

16:25:13.7  
16:25:15.9

we just– just doin' Old Bahama Channel.

### **CM**

16:25:18.4  
16:25:21.0

that's right. yeah that won't that won't affect our speed.

### **ALL CHAN.**

16:25:21.0  
16:33:23.5

[Area of non-pertinent conversation or no conversation.]

### **ALL CHAN.**

16:33:23.5  
16:33:37.0

[13.5 seconds of audio was determined to be missing between  
12:35:21 P.M. and 12:35:36 P.M. on September 30, 2015.]

### **ALL CHAN.**

16:33:37.0  
16:34:38.4

[Area of non-pertinent conversation or no conversation.]

## Secondary and Electronic Communications

### **M1/M2**

16:34:38.4  
16:34:52.4

[sound of SAT-C terminal receiving incoming  
message.]

### **M1/M2**

16:34:52.7  
16:35:14.4

[sound of SAT-C terminal printer printing.]

## Primary Communications

**M1/M2**

16:35:14.1 [sound similar to paper being torn.]  
16:35:17.4

**ALL CHAN.**

16:35:17.4 [Area of non-pertinent conversation or no conversation.]  
16:46:10.5

**2M**

16:46:10.5 ouuu. (I hurt my knee).  
16:46:13.3

**CM**

16:46:15.8 nothing's new except the decision to take the Old Bahama Channel  
16:46:21.2 north.

**2M**

16:46:21.0 (definitely don't want to go right through it).  
16:46:22.9

**CM**

16:46:23.6 well said.  
16:46:24.3

**2M**

16:46:24.8 [sound of laughter].  
16:46:26.3

**2M**

16:46:30.9 alright (I got you).  
16:46:32.4

**CM**

16:46:33.6 so I...  
16:46:34.4

**2M**

16:46:34.4 those charts are ready to go.  
16:46:36.8

**CM**

16:46:35.8 okay.  
16:46:36.8

## Secondary and Electronic Communications

## Primary Communications

**CM**

16:46:37.3 those the Panama charts that the (one we got)?  
16:46:40.1

**2M**

16:46:40.7 yeah– um after Panama Canal– from Panama Canal ummm.  
16:46:47.0

**CM**

16:46:45.6 umm I have a requisition open (in AMOS) [Asset Management  
16:46:51.7 Operating System, a software program.] I didn't match the numbers up  
yet.

**2M**

16:46:51.8 there uh– I did not see it on any of the Panama Canal in that order.  
16:46:56.8

**CM**

16:46:57.6 \* \* \* requisitions \* \* .  
16:47:02.3

**ALL CHAN.**

16:47:02.3 [Area of non-pertinent conversation or no conversation.]  
16:47:52.0

**CM**

16:47:52.0 we're uh still one-three-eight. \* no traffic.  
16:47:55.2

**2M**

16:47:55.3 okay. I got ya.  
16:47:56.3

**2M**

16:48:08.0 oh yeah. oh yeah.  
16:48:11.4

**2M**

16:48:13.8 I love the Old Bahama Channel.  
16:48:16.7

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

16:48:16.7

oh yeah?

16:48:17.5

**2M**

16:48:17.7

it's— awesome.

16:48:19.5

**AB-1**

16:48:20.2

alright.

16:48:20.8

**2M**

16:48:21.3

it's really pretty but when we get close to uh the islands— you can see 'em out there— especially the Dominican.

16:48:24.5

**AB-1**

16:48:24.8

uh huh.

16:48:25.5

**2M**

16:48:26.2

you can see up (out/up) there especially the...

16:48:29.2

**AB-1**

16:48:29.1

oh yeah?

16:48:29.7

**2M**

16:48:30.0

it's beautiful.

16:48:30.9

**AB-1**

16:48:31.2

wow.

16:48:32.0

**2M**

16:48:32.1

beautiful run. [2M continued to speak a bit more about the Old Bahama Channel run being beautiful.]

16:48:33.1

**ALL CHAN.**

16:48:33.1

[Area of non-pertinent conversation or no conversation.]

16:50:27.4

## Secondary and Electronic Communications

## Primary Communications

### AB-1

16:50:27.4 alright ("B") the same thing. one-three-eight– one-four-one and it's  
16:50:32.7 clear.

### AB-2

16:50:32.3 got ya.  
16:50:33.2

### AB-1

16:50:33.2 alright. alright mate been relieved. one-three-eight.  
16:50:35.7

### 2M

16:50:36.6 (okay/we're good).  
16:50:37.3

### AB-1

16:50:37.2 alright now.  
16:50:38.6

### ALL CHAN.

16:50:38.6 [Area of non-pertinent conversation or no conversation.]  
16:54:19.5

## Secondary and Electronic Communications

### M1/M2

16:54:19.5 [sound of SAT-C terminal receiving incoming  
16:54:35.8 message.]

### M1/M2

16:54:39.1 [sound of SAT-C terminal printer printing.]  
16:55:28.0

### M1/M2

16:56:01.2 [sound similar to paper being torn.]  
16:56:02.3

## Primary Communications

**2M**

16:56:42.6 so the umm– see where we are. right here. Eleuthera island. [begins to  
16:57:35.2 sound as though the 2M is reading] government of the Bahamas has  
issued a hurricane warning. northwestern Bahamas– including the  
Abacos– Berry Islands– Eleuthera and Grand Bahama Island.[begins  
speaking normally] (that's awesome/but umm). all of this area is a  
hurricane warning. all of this area \* \* ummm. [sounds as though the 2M  
is reading] the government of the Bahamas has issued a tropical storm  
warning for the southeastern Bahamas including the (Acklins)–  
Crooked Island and \* \* \*. [sound of sigh] \* \* .

**2M**

16:57:40.9 uhh 'kay. (sent it).  
16:57:48.1

**2M**

16:58:54.4 looks like the hurricane is right over– our trackline. our old trackline.  
16:59:08.9 (should be there) right now.

**ALL CHAN.**

16:59:08.9 [Area of non-pertinent conversation or no conversation.]  
17:02:27.5

**2M**

17:02:27.5 so two o'clock in the morning.  
17:02:29.6

**AB-2**

17:02:29.9 what?  
17:02:30.4

**2M**

17:02:30.5 it should be right here.  
17:02:33.4

**2M**

17:02:36.0 let's see where we will be.  
17:02:38.8

**2M**

17:02:47.0 seven. nine. eleven. nine o'clock in the morning.  
17:02:56.5

## Secondary and Electronic Communications

## Primary Communications

**2M**

17:02:59.4 three o'clock.  
17:03:01.1

**2M**

17:03:03.5 [sound of intensifying chuckling] we're gunna be right there with it.  
17:03:15.9 [sound of laughter]. looks like this storm's comin' right for us. [sound of laughter]. ahhh you gotta be kidding me.

**AB-2**

17:03:17.7 gotta be a better way to go.  
17:03:19.5

**2M**

17:03:22.3 \*-teen minutes. \* \* twenty-three. north. one o'clock in the morning. two  
17:03:52.7 o'clock in the morning. so this our two– zero-two hundred– approximate  
D-R. zero-two hundred. that's where we should be and that's where the  
hurricane's gunna be. [sound of giggling.]

**AB-2**

17:03:49.7 [sound of giggling.]  
17:03:51.7

**2M**

17:04:15.8 max winds eighty five– gusts to one hundred and five knots.  
17:04:20.3

**AB-2**

17:04:26.3 we're gunna get our ass ripped.  
17:04:29.5

**2M**

17:04:28.6 we are going to go right through the # eye (in this).  
17:04:32.9

**2M**

17:04:38.5 should have brought my phone up and took a picture of this.  
17:04:41.6

**AB-2**

17:04:48.2 \* \* \* tore up.  
17:04:50.4

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

17:04:52.2

bet on that.

17:04:53.6

**2M**

17:04:55.5

good thing we got workers on board.

17:04:58.3

**AB-2**

17:05:04.2

kiss those containers goodbye.

17:05:05.9

**AB-2**

17:05:12.2

Unocal \* \* (right here) they \* \* lost a bunch a containers. [reference to another shipping company.]

17:05:17.3

**2M**

17:05:17.6

what's that now?

17:05:18.3

**AB-2**

17:05:19.1

I say Unocal– a ship like this right here.

17:05:21.7

**AB-2**

17:05:24.2

they went through one too and lost a bunch o' containers.

17:05:26.7

**2M**

17:05:29.6

what ship was it?

17:05:30.7

**AB-2**

17:05:30.9

Unocal. [the name of a shipping company, not a ship.]

17:05:31.6

**2M**

17:05:32.2

was that the *El Morro's* original name?

17:05:34.1

**AB-2**

17:05:34.2

I don't think so.

17:05:35.5

## Secondary and Electronic Communications



## Primary Communications

**2M**

17:05:49.7  
17:05:55.4

\* \* \* about that before we even left Jacksonville.

**AB-2**

17:06:02.1  
17:06:03.9

\* (that's what I said).

**2M**

17:06:07.7  
17:06:58.6

if we had stayed on our trackline like *El Yunque* did.— she's right on our trackline— now and we're up here. we— we would have been up here. she come down— would have been north of it. the only the only good thing is it's not gunna last long. by tomorrow afternoon we should be out of it. it's just gunna be nice and clear from there on out. it's just getting through it in the wee hours—midnight— in the wee hours of the morning. and then we're taking Old Bahama Channel north— since the word got back. it's (typical).

**AB-2**

17:07:10.5  
17:07:12.8

(we're/where/water) on the second deck.

**2M**

17:07:12.7  
17:07:18.1

(and we'll just go) out there and (lift it up off the deck).

**2M**

17:07:50.6  
17:08:00.0

gunna get to sleep fast tonight cause I think you and I are gunna be the lucky ones. we're gunna get the brunt of the storm during our normal work— watch hours.

**2M**

17:08:01.3  
17:08:03.2

sleep fast tonight.

**2M**

17:08:06.8  
17:08:09.1

actually get a good night's sleep.

**2M**

17:08:09.7  
17:08:14.3

[sound of brief chuckle] everyone else on the other hand. not so much.

## Secondary and Electronic Communications

## Primary Communications

## Secondary and Electronic Communications

**ALL CHAN.**

17:08:14.3

17:12:40.9

[Area of non-pertinent conversation or no conversation.]

**2M**

17:12:40.9

17:12:51.5

got the latest weather report in from uh SAT-C. and uh– this is the position now.

**CM**

17:12:51.4

17:12:52.2

really?

**2M**

17:12:52.2

17:12:55.9

and that's where it's going to be and that's we're gonna be at the same time \*.

**CM**

17:12:55.4

17:12:56.0

oh.

**2M**

17:12:55.9

17:12:56.9

yes. [happily exclaimed]

**CM**

17:12:56.5

17:12:58.0

maybe we should go back 'round...

**2M**

17:12:57.4

17:13:00.6

[sound of laughter] so– yeah. [happily exclaimed]

**CM**

17:13:01.0

17:13:02.2

okay so its...

**2M**

17:13:01.3

17:13:02.1

it's two in the morning.

**CM**

17:13:02.3

17:13:05.8

farther south and west than the last one.

## Primary Communications

**2M**

17:13:05.7 mhmm. yup. yeah. so it's right on our old trackline.  
17:13:09.3

**CM**

17:13:06.9 \* even more south.  
17:13:08.9

**2M**

17:13:09.3 and yeah this is where they have it predicted for zero-six zulu– two  
17:13:14.4 o'clock

**CM**

17:13:14.5 fascinating.  
17:13:15.3

**2M**

17:13:16.5 short lived. it's gunna be short lived.  
17:13:18.4

**CM**

17:13:19.1 what is?  
17:13:19.9

**CM**

17:13:21.0 our experience?  
17:13:21.8

**2M**

17:13:21.8 yeah. yeah. it's– it's gunna be quick.  
17:13:23.7

**2M**

17:13:24.0 umm. well. same as before.  
17:13:26.2

**CM**

17:13:26.2 okay. good. one-three-eight.  
17:13:28.5

**2M**

17:13:29.6 how was dinner?  
17:13:30.4

## Secondary and Electronic Communications

## Primary Communications

**CM**

17:13:30.6 ohh chicken. (yeah).  
17:13:32.8

**CM**

17:13:33.7 I dunno what you call it. jerk chicken. \* \* .  
17:13:36.0

**AB-2**

17:13:36.0 oh yeah jerk chicken.  
17:13:37.4

**2M**

17:13:36.1 ohhh. jerk chicken.  
17:13:37.6

**CM**

17:13:37.7 yeah some chicken with uh rice. and peas.  
17:13:42.4

**2M**

17:13:42.6 alright.  
17:13:43.3

**CM**

17:13:43.9 yup. nothing special. just food.  
17:13:45.8

**ALL CHAN.**

17:13:45.8 [Area of non-pertinent conversation or no conversation.]  
17:30:09.8

**CM**

17:30:09.8 [sound of throat being cleared.] second mate mention the weather?  
17:30:12.5

**CAPT**

17:30:12.8 yeah.  
17:30:13.6

**CM**

17:30:15.8 \* \* (tomorrow afternoon) \* \* speed. get the mail?  
17:30:20.1

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

17:30:20.0

17:30:21.6

B-V-S (stat)?

**CM**

17:30:20.9

17:30:22.4

yes sir. [sound of throat being cleared.]

**CAPT**

17:30:22.8

17:30:24.6

shoot it up as soon as I get it.

**ALL CHAN.**

17:30:24.6

17:39:03.0

[Area of non-pertinent conversation or no conversation.]

**CM**

17:39:03.0

17:39:05.7

is it is it five o'clock that comes in?

**CAPT?**

17:39:06.6

17:39:16.1

naw it's eighteen.– eighteen– eighteen zulu is one of 'em. well hold on a sec.

**CM**

17:39:16.3

17:39:17.2

\* \* \*

**CAPT**

17:39:17.5

17:39:20.8

it doesn't come up here– I have to send it (like that/up here).

**CM**

17:39:20.8

17:39:21.4

oh okay.

**CM**

17:39:21.4

17:39:26.3

cause I– yeah I don't know if our thing actually– this is when you sent it to us or is this when...?

**CAPT**

17:39:26.6

17:39:26.9

yeah.

## Secondary and Electronic Communications

## Primary Communications

**CM**

17:39:27.3 cause I got six to twelve and here's the seven to the \*. —and this is  
17:39:33.2 when you sent it.

**CAPT**

17:39:32.6 yeah.  
17:39:33.0

**CM**

17:39:33.1 roger that.  
17:39:34.1

**CAPT**

17:39:35.4 \* go down and check.  
17:39:36.8

**ALL CHAN.**

17:39:36.8 [Area of non-pertinent conversation or no conversation.]  
18:08:50.4

**CM**

18:08:50.4 (you alright?)  
18:08:51.6

**AB-1?**

18:08:51.8 (me?)  
18:08:52.6

**CM**

18:08:55.2 smellin' the weather.  
18:08:56.8

**AB-1**

18:08:57.9 look like buildin' up.  
18:08:59.7

**CM**

18:09:00.6 yup. yeah. I'm gunna log it as force six here.  
18:09:04.0

**ALL CHAN.**

18:09:04.0 [Area of non-pertinent conversation or no conversation.]  
18:24:15.2

## Secondary and Electronic Communications

## Primary Communications

**M1**

18:25:59.3 [sound similar to paper being torn.]  
18:26:01.3

**CM**

18:26:04.0 [sounds as though CM is reading] National Hurricane (Center).  
18:26:05.4

**AB-1**

18:26:06.1 uh huh.  
18:26:06.7

**CM**

18:26:07.2 [sounds as though CM is reading] the National Hurricane Center.  
18:26:10.4 Miami Florida.

**AB-1**

18:26:10.5 what'd they say?  
18:26:11.6

**CM**

18:26:11.5 they're sayin– a bunch of numbers– positions– times– millibars.– (and  
18:26:27.8 eighty) nautical miles to the west of it. tropical storm force winds  
expected. (I'm/they're) looking for position(s).

**?**

18:26:27.7 positions?  
18:26:28.4

**CM**

18:26:28.4 twenty-four hour forecast. this is– eighteen hundred zulu (and it's) \*  
18:26:34.6 direction(s).

## Secondary and Electronic Communications

**M1/M2**

18:24:15.2 [sound of SAT-C terminal receiving incoming  
18:24:32.5 message.]

**M1/M2**

18:24:36.5 [sound of SAT-C terminal printer printing.]  
18:25:57.6

## Primary Communications

**CAPT**

18:26:37.7

twenty-four– seventy-four.

18:26:40.5

**ALL CHAN.**

18:26:40.5

[Area of non-pertinent conversation or no conversation.]

18:28:22.9

**ALL CHAN.**

18:28:22.9

[Audio in this area was corrupted. There was a discontinuity in the recording.]

18:28:29.3

**ALL CHAN.**

18:28:29.3

[Area of non-pertinent conversation or no conversation.]

18:43:36.2

**CM**

18:43:36.2

doesn't look pretty.

18:43:37.2

**AB-1**

18:43:39.0

we on the outskirts it look like we gettin' close to that eye.

18:43:43.1

**CM**

18:43:43.7

and uh– I was waitin' for this– this last uh email. captain went down there to– log on the satellite...

18:43:54.6

**AB-1**

18:43:54.7

it look like that dag gone picture you showed me this mornin' when we was on the outskirts of that yellow. we look like (we) he showed me this morning sayin' that (was) the yellow– we was like– like this. we like in there. we like here. if that's the eye. we like right here. [sound of chuckle].

18:44:12.3

**CM**

18:44:12.6

yeah. @CAPT (\* \*) gettin' the data. that's– that's– that's eight hours old. information. when we get the latest– here and uh– evaluate the situation.

18:44:26.2

**AB-1**

18:44:31.3

yeah that don't uh– that don't look too good right there.

18:44:35.2

## Secondary and Electronic Communications



## Primary Communications

**CM**

18:44:35.4  
18:44:37.3

I'll make a recommendation.

**AB-1**

18:44:36.9  
18:44:37.7

[sound of chuckle.]

**CM**

18:44:38.6  
18:44:45.9

I mean I– I mean just threw it out there when we were \* \* \*.

**CM**

18:44:47.4  
18:44:50.5

ahhhh (sure/#).

**AB-1**

18:44:52.4  
18:44:55.4

that (red)– I don't like that.

**AB-1**

18:44:56.4  
18:45:04.6

\* \* \* what you showed me (before/this morning). I was like well that's not bad. the conditions (now/bad)– I was like well "this is not too bad right here."

**CM**

18:45:04.7  
18:45:14.0

that's right. when we get the latest– the next one here. (ya ask me)– (take) a little more of a jog around that yellow.

**AB-1**

18:45:13.7  
18:45:14.5

mhmm.

**CM**

18:45:15.5  
18:45:18.5

(analysis you got) four hours from \* \*.

**?**

18:45:22.9  
18:45:23.5

(a little green).

## Secondary and Electronic Communications

## Primary Communications

**CM**

18:45:23.7  
18:45:25.9

he'll make the decision.

**CM**

18:45:30.6  
18:45:34.8

I– I mean I've rode these ships through horrible storms.

**CM**

18:45:36.9  
18:45:40.0

you gotta tie your # down. that's it.

**AB-1**

18:45:41.8  
18:45:53.5

I don't got nothin'– the only thing that kinda scared me is that my uhhh–  
D-V-Ds and \* \* is on top of each other. and like \* \*.

**CM**

18:45:52.1  
18:45:53.7

just (hold tight/attach) to somethin'

**AB-1**

18:45:54.6  
18:46:19.6

[AB-1 continued to talk about the intricacies of securing DVDs in  
relation to the other furniture and television in his room.]

**CM/AB-1**

18:46:19.2  
18:46:29.1

[CM and AB-1 continue talking about using different items to secure  
possessions in AB-1's room].

**CM**

18:46:33.4  
18:46:40.5

I mean that's what I've been doin' in the hold. I've got some barrels  
down there– I just found some car straps– just tied them end to end  
and made a rope out of it.

**CM**

18:46:41.4  
18:46:42.6

snake it around (something).

**CM**

18:46:44.0  
18:46:45.4

make (it) up (to) something.

## Secondary and Electronic Communications

## Primary Communications

**CM**

18:46:46.5 see this here is my favorite coffee cup. it's goin' in the sock drawer. I'm  
18:46:53.6 not gunna let it sit out on the desk.

**AB-1**

18:46:53.7 not \* (desk). everything– everything's either in the drawer or in my  
18:47:05.8 closet. ya– I mean– I– I– I– I'm good. I'm good and secured. I'm just  
worried about that so. I'm like– it was like (all of) that.

**AB-1**

18:47:08.2 \* coffee thing– we wanted to \* (right in front)– the little Velcro there.  
18:47:17.3 right in front– right so when you normally open the refrigerator up  
(might keep it) from fallin' out.

**AB-1**

18:47:20.0 put it underneath (of that/there) so it won't– so it won't slide. \* \* that's  
18:47:33.7 the only thing that I'm worried about. everything else– I ain't worried  
about nothin'. everything's good up here. nothing– nothing else would  
fall \*.

**CM**

18:47:36.3 I mean I'm not scared (to go through it). we're stable.  
18:47:39.3

**AB-1**

18:47:40.2 I– I– I think (it) ain't gunna be bad as you think but you still gunna be  
18:47:45.2 prepared.

**CM**

18:47:44.8 see those (pictures).  
18:47:46.3

**CM**

18:47:47.2 (remember in) The Perfect Storm [reference to the movie *The Perfect*  
18:47:51.1 *Storm* (2000)] with that container ship rockin' and rollin' and all.

**AB-1**

18:47:51.2 uh– I saw that but I don't like watchin' that. I saw it but when I seen it I  
18:47:58.9 did not like that movie. [sound of chuckle] cause (I'm on) that thing you  
know.

## Secondary and Electronic Communications

## Primary Communications

**CM**

18:47:58.5 you know (everything I'll come up here and) show ya.  
18:48:01.2

**AB-1**

18:48:01.4 uh-hh- I think so. I got- I got read that.  
18:48:04.1

**CM**

18:48:03.8 I got pictures of these ships with all them trailers out there layin' on their  
18:48:17.8 sides- hangin' over the railings- all that rails- all those side rails and  
fire stations are busted \* \*. I mean literally trailers hangin' over the  
sides with chains hangin' down in the water.

**AB-1**

18:48:17.9 (really)?  
18:48:19.0

**CM**

18:48:19.2 oh yes.  
18:48:20.1

**CM**

18:48:21.7 oh-hh yes.  
18:48:23.6

**CM**

18:48:24.6 I've got to send these guys. I've seen the water chest deep down there  
18:48:29.2 on (the) second deck.

**CM**

18:48:30.3 yeah it's no joke.  
18:48:31.5

**CM**

18:48:32.2 yeah when I said you know those scuttles need to be dogged- not just  
18:48:38.0 flipped down. you know- they need to be spun and sealed.

**AB-1**

18:48:42.6 \* \* \*. \* \* gunna take some weather down there on second deck. you  
18:48:54.9 know when we get in it- so you stop and stand there- you know we  
stand there- you got the little flap there so the water don't come in.  
know what I'm talkin' 'bout?

## Secondary and Electronic Communications

## Primary Communications

**CM**

18:48:54.9

yeah.

18:48:55.3

**AB-1**

18:48:55.3

(see) how the closed them ( . / ?)

18:48:56.6

**CM**

18:49:00.0

yeah. they won't keep the water out. they might be good for a break–  
breakin' waves. you know– not for preventing cargo damage (but)  
they're not water tight. they're just they're just uhh– like wave breakers.  
break waters.

18:49:15.2

**CM**

18:49:18.4

yeah they wood ones on the Alaska run. we– we started closin' 'em but  
they got busted up so much we just decided to keep 'em open so they  
won't get damaged. I mean I– I mean I don't even know what the point  
of them was– but they just cut them off eventually– (that was) what  
they're there for.

18:49:35.9

**AB-1**

18:49:36.2

mhmm.

18:49:37.3

**CM**

18:49:37.7

what do they think they're gunna do with 'em? they're all bent up– beat  
up– it's not like drop uhh a bar behind ('em) and lock 'em or anything.  
you know. you see how they're all bent? they're just swinging on a  
hinge. maybe hit somebody in the head.

18:49:50.6

**AB-1**

18:49:54.8

I mean like– # I mean– I've been on ships (where we was doin') ya get  
ya sea legs– and we was like "whhooaaa– whhooaaa" you know what  
I'm sayin'? and I'm sayin'– ("it's crrazzzy" sprays came over) came all  
the way like basically went like over the top– over the top of th– the  
trailers– like this– (like where) waves and sprays \* just come back...  
wow that's– that's...

18:50:16.1

## Secondary and Electronic Communications

## Primary Communications

**CM**

18:50:14.6 some– some spray on deck. (yeah) it's alot of – green water over the  
18:50:25.6 bow. (this thing) \* \* gunna (crack it in half/crack you in the end/drive  
you in the end). it's scary.

**AB-1**

18:50:25.5 yeah. yeah.  
18:50:26.6

**CM**

18:50:26.6 it's scary.  
18:50:27.3

**AB-1**

18:50:27.3 I ain't never seen– \* \* these containers with chains– dropping  
18:50:41.2 destroyed. know what I'm sayin'? just– just I (ain't been in anything)  
nothin' like that before. knock on wood I won't be (a) part of nothin' like  
that.

**ALL CHAN.**

18:50:41.2 [Area of non-pertinent conversation or no conversation.]  
18:51:28.2

**CAPT**

18:51:28.2 I just sent you the latest weather.  
18:51:29.7

**CM**

18:51:29.7 latest weather alright.  
18:51:31.1

**CM**

18:51:39.7 we shall see.  
18:51:41.1

**ALL CHAN.**

18:51:41.1 [Area of non-pertinent conversation or no conversation.]  
18:55:36.3

**CM**

18:55:36.3 it says the same thing. (no) got it goin' farther down than the last time.  
18:55:43.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

18:55:44.0

yeah.

18:55:44.4

**CM**

18:55:44.2

[sound of throat being cleared] umm would– would you consider goin' the other side of San Salvador?

18:55:48.6

**CAPT**

18:55:48.8

yeah. I thought about that.

18:55:50.5

**CM**

18:55:51.8

and then here you– you know. ya– you know– I don't think so– once you're here and then you come up (north/from) this point. (I think) you could go over into here– \* \* \*.

18:56:04.3

**CAPT**

18:56:04.5

once we get to down here.

18:56:07.0

**CM**

18:56:06.2

I think we're passed.

18:56:07.1

**CAPT?**

18:56:07.0

yeah.

18:56:07.4

**CAPT**

18:56:08.2

here's the mark.

18:56:09.1

**CAPT**

18:56:11.0

(that's/it's) gunna give us uhh an additional thirty miles.

18:56:16.4

**CM**

18:56:16.2

so I'm thinkin' this. here's the zero-two hundred D-R– or here's the zero-two hundred D-R corresponding– corresponding to that position.

18:56:23.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

18:56:19.5

mhmm.

18:56:20.2

**CAPT**

18:56:22.8

mhmm. yeah.

18:56:24.4

**CM**

18:56:24.0

and that's-- that's what I was thinking.

18:56:26.9

**CAPT**

18:56:27.2

I agree wholeheartedly. that's what I was lookin' at.

18:56:30.6

**CAPT**

18:56:31.6

get a position.

18:56:33.2

**CM**

18:56:33.0

I'll make it so.

18:56:34.4

**CM**

18:56:34.6

(yes sir) \* \* (seventeen to nineteen hundred) \* \* and uh dead center on

18:56:43.2

the deep spot right?

**CAPT**

18:56:38.3

okay.

18:56:39.0

**CAPT**

18:56:43.2

I would. the difference (that) I'm getting.

18:56:45.7

**CM**

18:56:46.2

(yeah).

18:56:46.9

## Secondary and Electronic Communications



## Primary Communications

**CM**

18:56:51.9 umm between now and then. the second mate could probably pull out a  
18:57:18.0 (think this matters) \* \* \* and then this is this is seventy five feet there.  
I'm gunna erase this one. we'll be down in here by then. position's  
gunna be \* \* \*. (that's a) \* \* \*.

**CM**

18:57:23.5 I– I could take (her/the) charts or you wanna let the second mate do it?  
18:57:25.9

**CAPT**

18:57:28.6 let's– let's get the position on it. the chart. at nineteen hundred.  
18:57:30.6

**CM**

18:57:33.7 yes.  
18:57:34.2

**CAPT**

18:57:34.5 then we'll adjust our trackline. steer to make good. ('kay) then we'll look  
18:57:42.0 for a chart.

**CAPT**

18:58:38.3 @DLRTS just emailed me. he wants to know if I wanna get off–  
18:58:53.4 October the second– eleventh or whatever these are here in October.  
he wants to know when I would be earliest available back.

**CAPT**

18:58:55.4 so I emailed him back and said umm “my original come back to– my  
18:59:18.4 original schedule– was nine twenty-two to twelve thirty. I plan on  
completing that tour– being relieved so I could be home in time to make  
their wedding \* \* \*.

**CAPT**

18:59:19.7 I don't know what the deal is here.  
18:59:22.3

**CAPT**

18:59:24.3 (tryin' to get um to say) well "so and so needs to get back to work–  
18:59:30.9 captain so and so \* \* classes available." you know what?

## Secondary and Electronic Communications

## Primary Communications

**CM**

18:59:32.5  
18:59:41.0

\* \* \* when they lay this up they're not gunna (take us back) \* \* \*.

**CAPT**

18:59:40.2  
18:59:42.1

no-- I know.

**CM**

18:59:42.3  
18:59:47.3

when the *Great Land* laid up \* make a move to the *El Yunque*.

**M1**

18:59:45.3  
18:59:48.1

[sound similar to hourly GPS alarm activating.]

**CM**

18:59:47.3  
18:59:49.4

somebody running aground.

**CAPT**

18:59:49.3  
18:59:50.8

\* \* \*.

**CM**

18:59:54.0  
18:59:59.5

I hear what you're saying captain. I'm in line for the choppin' block...

**CAPT**

18:59:59.1  
19:00:00.6

yeah. same here.

**CM**

19:00:00.0  
19:00:01.8

... I'm waitin' to get screwed.

**CAPT**

19:00:01.6  
19:00:02.6

same here.

**CM**

19:00:03.4  
19:00:05.5

I don't know what's gunna happen to me.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:00:04.5 an- an and then he said- you know "let me know what'll work best for  
19:00:09.6 you." [sound of brief laugh.]

**CM**

19:00:09.2 stay until December first and \* \* .  
19:00:11.9

**CAPT**

19:00:12.1 stay until December (third/thirty) like I said. and that's it. two par- two  
19:00:15.9 sentences.

**CAPT**

19:00:17.2 very nice. very polite. right to the point.  
19:00:19.6

**CAPT**

19:00:20.8 plan on...  
19:00:22.2

**CM**

19:00:21.7 yeah I'm- I'm right behind ya. I think I'm November twenty-eight is  
19:00:26.9 seventy days. [The CAPT spoke a few unintelligible words while CM  
was speaking in this area.]

**CAPT**

19:00:28.3 next they're gunna come back- "well you know it's a long time for you  
19:00:33.2 to be out there- it's not safe."

**CAPT**

19:00:34.1 they have other vessels that are on four month contracts.  
19:00:37.1

**CM**

19:00:37.2 yeah- well I hope that uh you that—they're just gunna say the opposite  
19:00:56.0 (to/for) me. "we- we want you to stay through- uh- to Alaska." make  
me work five months straight. I'll be- uh- I'll be a walkin' zombie. \* \* \* .

**CM**

19:00:56.5 let's do this.  
19:00:57.2

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:00:57.4  
19:00:59.0

take your time. all good.

**CM**

19:00:59.0  
19:00:59.4

yeah yeah.

**CAPT**

19:00:59.3  
19:01:02.3

position on the chart– give me a course and I'll bring it over.

**CAPT**

19:01:03.4  
19:01:04.9

and then we'll dig through a chart.

**CAPT**

19:01:07.6  
19:01:10.6

change this uh– change the route.

**?**

19:01:10.4  
19:01:10.9

\* \*.

**CAPT**

19:01:11.0  
19:01:13.0

yeah. on the uh– B-V-S.

**CM**

19:01:13.0  
19:01:13.9

good.

**CM**

19:01:16.1  
19:01:21.9

yea– better yet– you can you can even see– (it'll be) yellow there...as opposed to...

**CAPT**

19:01:21.6  
19:01:22.7

yeah. no problem.

**CM**

19:01:22.5  
19:01:29.0

(now that's at) two o'clock. zero-six zulu. (we're/you're) down here.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:01:28.0 yeah. it's golden. it's golden. [The last "it's golden" was spoken with  
19:01:31.3 raised inflection and exclaimed]

**CM**

19:01:31.4 certainly better.  
19:01:32.4

**CAPT**

19:01:32.4 put it down there– give me a course to steer mate.  
19:01:34.2

**CM**

19:01:34.3 I'm on it captain– I need one more minute here. fifty point seven.  
19:01:38.6

**CM**

19:02:19.0 I got one-five-zero captain– you wanna check it?  
19:02:21.4

**CAPT**

19:02:21.5 yup. what is it?  
19:02:22.4

**CM**

19:02:26.2 \* \* \*  
19:02:28.0

**CM**

19:02:30.6 here's I just– I just picked the center.  
19:02:32.7

**CAPT**

19:02:32.7 yup.  
19:02:33.0

**CM**

19:02:32.9 that's our fix.  
19:02:34.3

**CAPT**

19:02:46.4 I concur. one-fifty.  
19:02:48.6

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:02:49.0  
19:02:49.8

\* \* .

**CM**

19:02:50.9  
19:02:55.5

if you agree– we'll– we'll stay south of this island as well before we come back out.

**CAPT**

19:02:55.5  
19:02:56.6

'kay (where are ya)?

**CM**

19:02:56.6  
19:02:58.2

in this area right here.

**CM**

19:02:59.3  
19:03:00.3

(that's right).

**CAPT**

19:03:00.4  
19:03:02.0

I don't think we'll need to.

**CM**

19:03:03.2  
19:03:13.0

that that's what I was aiming for– lots and lots of deep water. I don't think we'll need to (drop/dog leg)– we can– straight line it outta here. keep this distance off it and...

**CAPT**

19:03:13.2  
19:03:14.1

mhmm.

**CM**

19:03:13.6  
19:03:14.9

like that?

**CAPT**

19:03:14.7  
19:03:18.7

yeah cause right here right here– everything's gunna be headin' up that way.

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:03:15.0 cause like this– this.  
19:03:16.8

**CM**

19:03:20.2 yep.  
19:03:20.7

**CM**

19:03:22.3 \*.  
19:03:22.6

**CAPT**

19:03:22.3 alright. so one-fifty.  
19:03:23.9

**CM**

19:03:23.9 okay. and then (what) we'll just stay ten miles north of that– shallow  
19:03:30.0 spot.

**CM**

19:03:33.6 \* \*.  
19:03:35.3

**CAPT**

19:03:37.9 comin' right to one-five-zero.  
19:03:40.0

**CAPT**

19:04:41.3 what we wanna do is make sure we don't go on on– on (pitchin'). and if  
19:04:51.5 you would– erase that other trackline.

**CM**

19:04:52.1 yes sir.  
19:04:53.9

**CAPT**

19:04:54.3 one trackline.  
19:04:56.0

**CM**

19:04:56.2 roger that.  
19:04:56.7

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:05:59.8  
19:06:07.1

\* \* \* . \* \* \* .

**CAPT**

19:06:31.5  
19:06:36.4

(feel) like a professional second mate. now that she just doesn't dump it on the deck.

**CAPT**

19:06:38.0  
19:06:38.3

yeah.

**CM**

19:06:50.5  
19:06:53.7

waypoint S for San Salvador.

**CAPT**

19:06:55.8  
19:06:57.0

\* \* \* .

**CM**

19:06:57.6  
19:06:59.4

that's it \* \* .

**CM**

19:07:17.9  
19:07:18.6

alright.

**CAPT**

19:07:19.6  
19:07:21.9

so what– what is that new waypoint?

**CM**

19:07:24.2  
19:07:24.9

right here?

**CAPT**

19:07:25.0  
19:07:25.2

yeah.

**CM**

19:07:26.7  
19:07:28.1

did you wanna put our position in?

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

19:07:28.6

yeah (that there's) \* \*.

19:07:31.0

**CM**

19:07:30.5

that's the nineteen hundred– that's twenty-five forty-two.

19:07:33.1

**CAPT**

19:07:33.2

yeah.

19:07:33.6

**CAPT**

19:07:42.4

yep.

19:07:42.6

**CM**

19:07:43.0

and at nineteen plus four is...

19:07:45.1

**CAPT**

19:07:45.8

I dunno. zer– zero-seven-five-fifty.

19:07:47.9

**CM**

19:07:48.2

yeah. zero-seven-five-fifty point seven.

19:07:50.3

**CAPT**

19:07:50.4

zero-seven-five.

19:07:52.8

**CM**

19:07:53.1

(I get) fifty-one.

19:07:54.9

**CAPT**

19:07:55.1

(you got it).

19:07:55.9

**CAPT**

19:07:58.7

\*.

19:07:59.6

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:08:00.3 that's twenty-three hundred.  
19:08:01.8

**CAPT**

19:08:07.5 let's put the twenty-two knots (in there).  
19:08:10.2

**CM**

19:08:10.2 alright.  
19:08:10.7

**CM**

19:08:12.3 alright. \* \* (from this to/then we'll miss) the next (point/one).  
19:08:14.6

**CM**

19:08:15.6 here.  
19:08:16.0

**CAPT**

19:08:17.0 yeah.  
19:08:17.3

**CM**

19:08:24.4 that's our waypoint.  
19:08:26.2

**?**

19:08:26.3 \*.  
19:08:26.8

**CAPT**

19:08:41.5 (ring/\*).  
19:08:42.2

**?**

19:08:44.5 (one).  
19:08:45.1

**CM**

19:08:49.4 zero-seven-four.  
19:08:51.2

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**CM**  
19:08:53.6 point one.  
19:08:54.7

**CAPT**  
19:08:57.4 ready.  
19:08:57.7

**CM**  
19:08:59.5 (and/now) our next waypoint.  
19:09:00.8

**CAPT**  
19:09:01.0 mhmm.  
19:09:01.6

**CM**  
19:09:03.6 twenty-one-fifteen.  
19:09:05.6

**CM**  
19:09:08.0 zero-seven-zero zero zero.  
19:09:10.7

**CAPT**  
19:09:11.8 twenty-one-fifteen.  
19:09:13.4

**CM**  
19:09:13.2 \*.  
19:09:14.3

**CAPT**  
19:09:16.8 zero-seven-zero what?  
19:09:18.8

**CM**  
19:09:18.4 zero-zero.  
19:09:19.3

**CAPT**  
19:09:20.6 ('kay).  
19:09:21.3

## Primary Communications

**CAPT**

19:09:26.3 (next).  
19:09:26.9

**CM**

19:09:27.2 \* \*  
19:09:28.3

**CM**

19:09:28.5 and from there we're going to.  
19:09:30.0

**CAPT**

19:09:29.9 yup.  
19:09:30.2

**CAPT**

19:09:39.5 \* \* (this island) \*.  
19:09:41.7

**CM**

19:09:46.4 yeah sure.  
19:09:47.8

**CM**

19:09:50.3 (item)– item of interest here.  
19:09:53.5

**CAPT**

19:09:53.0 yeah.  
19:09:53.7

**CM**

19:09:53.7 on this scale of chart.– just on the inside of it– and it's six-hundred  
19:10:04.0 (miles/fathoms).

**CAPT**

19:10:09.1 (alright). well. whatdya think? you wanna make this a little more up  
19:10:16.0 here?

**CM**

19:10:15.7 I mean– I had it here. (cap'n) I mean I put point up here at ten miles. I  
19:10:25.4 think we (stick) to this. the night orders stay left of the track.

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:10:26.7 stay north of the track. no closer than...  
19:10:29.0

**CM**

19:10:30.1 well- I'll move it.  
19:10:31.7

**CM**

19:10:35.8 move it.  
19:10:36.9

**CAPT**

19:10:38.0 my recommendation is simpler- simpler than uhh- explaining to an  
19:10:49.8 unseasoned- (pending weather) \* \*.

**CM**

19:11:05.4 (so they all have) \* \*- \* \*.  
19:11:08.4

**CAPT**

19:11:08.4 yeah just just one.  
19:11:09.8

**CM**

19:11:10.1 yeah.  
19:11:10.5

**CM**

19:11:11.6 (yeah I) \* \*.  
19:11:13.4

**CAPT**

19:11:12.9 \* \* \*.  
19:11:15.0

**CAPT**

19:11:16.9 \* \*.  
19:11:17.8

**CM**

19:11:17.6 \* we're safer either way.  
19:11:18.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:11:21.0

(let me just look/I'll leave the slip) right here.

19:11:23.6

**CM**

19:11:22.9

yes sir.

19:11:23.6

**CM**

19:11:30.7

wherever you want it– we'll pick it up.

19:11:32.4

**CAPT**

19:11:32.1

yeah– (we'll/let's) see. this was ten you said?

19:11:34.8

**CM**

19:11:35.2

yeah. (cap'n) it's about ten miles in here.

19:11:38.3

**CAPT**

19:11:40.1

it's fifteen.

19:11:41.2

**CM**

19:11:41.2

okay.

19:11:41.6

**CM**

19:11:43.9

(see I always go for) \* \*.

19:11:45.8

**CAPT**

19:11:45.9

ya—

19:11:46.7

**CAPT**

19:11:47.9

yeah.

19:11:48.8

**CM**

19:11:48.7

roger that.

19:11:49.6

## Secondary and Electronic Communications

## Primary Communications

?  
19:11:49.7 \* \* \*  
19:11:52.4

**CAPT**  
19:11:52.6 what do you wanna uh... what– what do you wanna label this one?  
19:11:56.9

**CM**  
19:11:56.7 S-two? or did I make the other one S-two?  
19:11:59.5

**CAPT**  
19:11:59.4 \* it doesn't matter.  
19:12:00.3

**CM**  
19:11:59.9 okay. I– I (gave this one) \* \* \* something \* \* .  
19:12:09.0

**CAPT**  
19:12:18.8 waypoint S.  
19:12:20.4

**CM**  
19:12:21.2 the beauty is we'll be able to (cut this) \* \* .  
19:12:23.0

**CAPT**  
19:12:23.9 yeah.  
19:12:24.5

**CAPT**  
19:13:03.7 \* (sixteen) \* .  
19:13:05.4

**M1/M2**  
19:13:07.1 [sound similar to beeping from an electronic keypad entry.]  
19:13:12.7

**CM**  
19:13:26.8 alright. we'll move to the \* \* .  
19:13:29.3

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:13:29.3  
19:13:29.7

yup.

**CAPT**

19:13:32.8  
19:13:35.0

you can take it right down to there.

**CM**

19:13:34.5  
19:13:35.4

yes sir.

**CAPT?**

19:13:38.7  
19:13:40.8

keep us off that bank \*.

**CM**

19:13:44.6  
19:13:48.7

I mean if anything the wind's blowin' us away from...

**CAPT**

19:13:48.6  
19:13:49.1

(correct/track).

**CM**

19:14:02.4  
19:14:10.6

'kay honestly I wouldn't bother \* feeling (mad/bad) that waypoint in here cause because it's it's (on this scale/mis-scaled).

**?**

19:14:16.3  
19:14:17.4

\* \*.

**CAPT**

19:14:19.4  
19:14:20.6

but we'll put it in.

**CM**

19:14:20.3  
19:14:21.4

(yeah sure).

**CAPT**

19:14:21.0  
19:14:22.2

let's put it in. [spoken hurriedly and exclaimed]

## Secondary and Electronic Communications



## Primary Communications

**CM**

19:14:22.0  
19:14:22.7

\* \*

**CAPT**

19:14:22.6  
19:14:23.4

check my work.

**CAPT**

19:14:24.8  
19:14:27.9

and then call out some positions.

**CM**

19:14:27.5  
19:14:28.3

\* sure.

**CAPT**

19:14:28.3  
19:14:29.2

I'll put 'em down.

**CM?**

19:14:47.5  
19:14:49.6

it's (green/really).

**CM**

19:14:58.4  
19:15:00.2

one-one-six.

**CM**

19:15:01.7  
19:15:05.6

ya got waypoint S in there already. right.

**CAPT**

19:15:05.6  
19:15:07.9

uhh waypoint S is...?

**CM**

19:15:07.6  
19:15:09.2

twenty-three-fifty-one that's San Salvador.

**CAPT**

19:15:09.6  
19:15:10.4

right here.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:15:10.3 twenty-three-fifty-one– seventy-four-point-one.  
19:15:13.1

**CM**

19:15:13.3 (and/then) you have twenty-one-fifty-seven.  
19:15:16.3

**CAPT**

19:15:16.2 yep.  
19:15:16.5

**CM**

19:15:16.6 get ya the one between those.  
19:15:17.9

**CAPT**

19:15:18.1 yep.  
19:15:18.4

**CM**

19:15:27.6 twenty-three.  
19:15:29.7

**CAPT**

19:15:31.0 wait a minute how– how did we go from twenty-one ta...?  
19:15:34.0

**CM**

19:15:35.3 south of twenty-three-fifty-one. north of twenty-one-fifteen. in between  
19:15:38.3 these.

**CAPT**

19:15:39.9 okay.  
19:15:40.2

**CM**

19:15:41.2 yeah that what you're doin' here is twenty-one.  
19:15:44.1

**CM**

19:15:51.2 this one's twenty-three- \*teen.  
19:15:55.4

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:15:55.3  
19:15:58.0

\* \* \*

**CAPT**

19:16:00.5  
19:16:06.5

last time I just clicked that little button on. you don't want that. \* \* it's gotta be between these two. right?

**CM**

19:16:06.6  
19:16:09.1

yeah (intercept) twenty-thirty-four.

**CAPT**

19:16:11.0  
19:16:12.8

this– I dunno (where that came up).

**CAPT**

19:16:15.7  
19:16:19.3

\* \* \*. that's not any of these.

**CM**

19:16:20.7  
19:16:23.5

yeah that's not a that's not a point. wanna delete it?

**CAPT**

19:16:23.7  
19:16:24.4

yeah.

**CM**

19:16:37.8  
19:16:38.9

insert.

**CM**

19:16:41.9  
19:16:44.7

\* \* \*

**CAPT**

19:16:47.8  
19:16:51.5

alright so we got twenty-three-fifty-one which is where (we're) at.

**CM**

19:16:51.6  
19:16:52.9

that's San Salvador.

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**CAPT**

19:16:52.8  
19:16:53.3

alright.

**CAPT**

19:16:55.4  
19:16:56.8

what's our next (point/one)?

**CM**

19:16:56.7  
19:16:59.0

the next waypoint is twenty-three-eighteen.

**CAPT**

19:17:01.1  
19:17:04.2

twenty-three.

**CM**

19:17:07.9  
19:17:08.8

eighteen.

**CAPT**

19:17:08.8  
19:17:09.3

yep.

**CM**

19:17:09.6  
19:17:11.6

seventy-three-thirty

**CAPT**

19:17:12.4  
19:17:14.3

seventy-three.

**CAPT**

19:17:16.9  
19:17:18.8

\*-three.

**CM**

19:17:18.9  
19:17:20.4

and that's Samana Cay.

**CAPT?**

19:17:21.5  
19:17:22.4

alright.

## Primary Communications

**CM**

19:17:26.8 di- di- did we overwrite the- the twenty-one-fifteen?  
19:17:30.0

**CAPT**

19:17:29.9 yep. yeah. (no/now) I got it.  
19:17:31.7

**CM**

19:17:31.9 gotta have that between here and Samana.  
19:17:34.1

**CAPT**

19:17:33.8 what's (thirty-two-fifty)-\* ? right there? how does that make (sense)?  
19:17:36.1

**CM**

19:17:37.7 that's not a point either.  
19:17:39.1

**CAPT**

19:17:38.9 naw we'll get rid of it. okay.  
19:17:40.9

**CM**

19:17:41.4 (then) you can over- over- can you just  
19:17:43.2

**CAPT**

19:17:43.3 alter that route to nineteen-fifty-three.  
19:17:45.0

**CM**

19:17:44.8 sure. (you want me) to write it?  
19:17:46.6

**CAPT**

19:17:47.1 yeah (what/time) is it?  
19:17:48.5

**CM**

19:17:48.7 uh-hh- twenty-one-fifteen.  
19:17:51.1

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:17:56.2  
19:17:56.7

yeah.

**CM**

19:17:56.8  
19:17:59.2

and zero-seven-zero.

**CAPT**

19:18:07.7  
19:18:08.3

okay.

**CM**

19:18:08.7  
19:18:13.7

that– if you can zoom out maybe (you/you're) zoomed in?

**CM**

19:18:21.3  
19:18:24.7

yeah we are south of Saaaan– Salvador.

**CAPT**

19:18:24.4  
19:18:25.1

yup.

**CM**

19:18:25.9  
19:18:30.8

here we are northeast of Samana Cay. and (it should be/I need) one more waypoint and then it should be San Juan.

**CM**

19:18:33.0  
19:18:34.7

that was right on route– right on the one that I...

**CAPT**

19:18:34.7  
19:18:36.3

right on the trackline.

**CM**

19:18:36.6  
19:18:43.5

\* about (seventy) degrees (next and then) and then it should be nothing (but the latest) \* \*.

**CAPT**

19:18:43.1  
19:18:43.6

(alright).

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:18:45.9 that-is-the-route. [spoken in pulses] and uh– this course we had before  
19:18:52.4 was \* one-two-seven.

**CM**

19:18:54.0 (and then rename it "deep west").  
19:18:56.5

**CM**

19:18:57.1 \* (another) two-seven.  
19:18:58.9

**CAPT**

19:19:01.3 so Mister @AB-1. while you were out there we brought it over to one-  
19:19:07.0 five-zero.

**AB-1**

19:19:06.8 (one-five-zero).  
19:19:08.4

**CAPT**

19:19:07.8 yeah.  
19:19:08.4

**AB-1**

19:19:08.3 \* \* \*  
19:19:10.5

**CAPT**

19:19:10.2 yup.  
19:19:10.6

**CAPT**

19:19:11.2 (and) if you would now that it's settled out you get a magnetic course  
19:19:17.5 and here's the...

**AB-1**

19:19:18.4 alright cap'n  
19:19:19.7

**CAPT**

19:19:19.7 (we're) puttin' more distance between us and the center of the low.  
19:19:23.1

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

19:19:23.2

alright.

19:19:24.1

**CAPT**

19:19:32.0

(another three) hours.

19:19:33.8

**AB-1**

19:19:34.5

(gunna do that).

19:19:36.1

**CAPT**

19:19:35.7

that's fine.

19:19:36.6

**CAPT**

19:19:36.6

you know you know what we're gunna have to do here?

19:19:38.6

**CM**

19:19:38.2

(what)?

19:19:38.8

**CAPT**

19:19:40.1

the second mate doesn't know direction (one)-three-three is in.

19:19:44.1

**CM**

19:19:44.9

\* yeah and they have the reciprocal courses labeled with both arrows going \* this way that way eh– I dunno...

19:19:51.0

**CAPT**

19:19:51.6

I hear– I hear ya. that's fine. that's fine.

19:19:54.5

**CM**

19:19:54.1

that way. [sound of laughing] (heh– right).

19:19:55.6

**AB-1**

19:19:57.3

one-five-five up top.

19:19:59.0

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

19:19:59.6  
19:20:00.6

thank you sir.

**CM**

19:20:01.2  
19:20:07.1

so uh just get a D-R on here. we doin' nineteen now? nineteen-three?

**CAPT**

19:20:06.9  
19:20:07.6

yeah.

**CAPT**

19:20:07.9  
19:20:09.7

that's some pretty good speed.

**CM**

19:20:11.7  
19:20:13.1

(that's the way uh).

**CM**

19:20:14.4  
19:20:20.1

\* \* \* (this two times) thirty-eight.

**CM**

19:20:27.5  
19:20:40.1

twenty-two– twenty-four. (and) here's the zero-two. there's the zero-two hundred.

**CAPT**

19:20:40.3  
19:20:41.3

mhmm.

**CM**

19:20:41.3  
19:20:43.6

(and then) there's the \* (latest).

**CAPT**

19:20:43.5  
19:20:47.7

what's the best estimate? right here?

**CM**

19:20:47.3  
19:20:51.7

(seven)-forty– forty (we're gunna be ten) (minutes/miles).

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:20:51.4  
19:20:52.8

okay. I can live with that.

**CM**

19:20:52.6  
19:20:53.9

much better.

**CAPT**

19:20:54.0  
19:20:54.8

yup.

**CM**

19:20:57.6  
19:20:58.8

we're \* \*.

**CAPT**

19:20:59.8  
19:21:00.5

we'll see.

**CM**

19:21:00.8  
19:21:03.4

(I'll sleep good). \* \* . [sound of brief laugh]

**CAPT**

19:21:03.7  
19:21:05.6

I want one foot on the deck.

**CM**

19:21:05.5  
19:21:06.2

\*.

**CM**

19:21:11.7  
19:21:25.9

thirty-eight. and that speed's gunna change. this— this will be the scary part. a little rough. here we are zero-six hundred tomorrow morning. we're on the upside. \*.

**CAPT**

19:21:31.5  
19:21:31.9

okay.

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:21:32.5 yeah. great.  
19:21:33.4

**CM**

19:21:34.4 alright. (I will/I'm gunna go) – \* \* the next guy punch the numbers.  
19:21:41.1

**CAPT**

19:21:41.4 yup.  
19:21:41.7

**CM**

19:21:44.4 supposed to be on lookout.  
19:21:47.2

**?**

19:21:47.2 yeah.  
19:21:48.2

**CM**

19:21:49.9 and that looks better it's in the yellow. as opposed to the pink.  
19:21:54.4

**CM**

19:21:56.7 [sound of throat being cleared] thank you.  
19:21:59.5

**CM**

19:22:11.8 yeah I think it's pretty well laid out here. for uh – one of the more  
19:22:17.6 organ-[ized].

**CAPT**

19:22:17.2 mhmm.  
19:22:18.0

**CM**

19:22:19.7 \* \* .  
19:22:22.5

**CM**

19:22:33.2 okay. I'll log nineteen-hundred divert for weather– (or/port) change  
19:22:39.2 route \* for weather.

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:23:07.7  
19:23:11.6

sleep soundly. get some rest.

**AB-1**

19:23:11.5  
19:23:13.7

got it (under) control huh? that's what's up.

**CM**

19:23:14.1  
19:23:16.5

\* \* \*.

**CAPT**

19:23:16.3  
19:23:21.8

say mate \* some of these \* \* you got one of them you got two of 'em on deck here. \* \*.

**CM**

19:23:21.5  
19:23:25.0

yeah I went I made a few– few additional things.

**CM**

19:23:26.1  
19:23:30.2

try and get 'em caught up. actually (to/two) \* \*.

**CAPT**

19:23:30.0  
19:23:30.7

yeah.

**CM**

19:24:18.8  
19:24:20.0

double check 'em.

**CAPT**

19:24:19.7  
19:24:21.9

I can– I can read 'em out to ya.

**CM**

19:24:22.6  
19:24:24.2

yeah we got a funny one here.

**CAPT**

19:24:25.5  
19:24:26.1

(which one)?

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:24:26.1 this uh– twenty-two– twenty-two– seventy-two eleven. I don't know  
19:24:33.7 what (we got) is. this point here.

**CAPT**

19:24:33.6 \*. okay. let me #-can it.  
19:24:36.0

**CM**

19:24:36.9 and you just click it– right click. and delete.  
19:24:40.2

**CAPT**

19:24:39.6 \* \* .  
19:24:40.6

**CM**

19:24:42.1 (yeah see this) I dunno what this little sub-menu (is here). did you see  
19:24:50.1 where it says insert waypoint \* \* it's behind this thing here.

**CAPT**

19:24:49.9 \* \* \* .  
19:24:52.2

**CAPT**

19:24:54.6 yeah.  
19:24:55.5

**CM**

19:24:55.1 \* what we're lookin' at. \* \* and the nineteen hundred fix was twenty-five  
19:25:02.2 forty-two.

**CAPT**

19:25:02.2 yep.  
19:25:02.7

**CM**

19:25:02.8 \* \* \* twenty-five forty-two seventy-five fifty. twenty-three hundred  
19:25:10.4 thaaat's what I was lookin' at. and...

**CAPT**

19:25:04.6 \* \* .  
19:25:05.8

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:25:10.1

I changed that one.

19:25:11.6

**CM**

19:25:11.3

perfect. \* that's-- that's why it was (higher over). and then

19:25:15.0

**CAPT**

19:25:15.1

mhmm.

19:25:16.0

**CM**

19:25:15.6

(and then/maybe) we should have twenty-three fifty-one seventy-four

19:25:19.1

**CAPT**

19:25:18.1

forty-one correct.

19:25:19.8

**CM**

19:25:19.3

then we should have twenty-one eight.

19:25:22.1

**CAPT**

19:25:20.8

twenty-three...

19:25:22.6

**CM**

19:25:21.7

you're missin' (one).

19:25:23.2

**CAPT**

19:25:22.5

twenty-three eighteen?

19:25:24.4

**CM**

19:25:23.7

yeah that's the twenty-two somethin' \* we're missin'.

19:25:26.5

**CAPT**

19:25:26.4

alright let me get in there.

19:25:28.2

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:25:27.9  
19:25:32.9

(gotta) insert (the waypoint) \* \* \*.

**CM**

19:25:34.4  
19:25:38.8

yeah but see this one's got us [sound of throat being cleared] straight by the island if we wanted to go up.

**CAPT**

19:25:38.8  
19:25:47.6

yup. (alright) also with your dividers double check. give me the one starting from your nineteen hundred position.

**CM**

19:25:47.4  
19:25:48.7

nineteen hundred?

**CAPT**

19:25:48.5  
19:25:50.3

yeah twenty-five– forty-two.

**CM**

19:25:49.6  
19:25:51.1

(twenty)-five– forty-two.

**CAPT**

19:25:50.6  
19:25:52.7

seventy-five– fifty-one—

**CM**

19:25:52.1  
19:25:52.8

correct.

**CAPT**

19:25:52.7  
19:25:54.4

okay what's the next waypoint.

**CM**

19:25:54.8  
19:25:56.5

twenty-three– fifty-one.

**CAPT**

19:25:56.2  
19:25:56.7

yep.

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**CAPT**

19:25:57.9  
19:26:00.4

seventy-four– forty-one

**CM**

19:25:59.0  
19:26:01.1

that's– that's it.

**CAPT**

19:26:01.2  
19:26:02.9

what's the next one?

**CM**

19:26:03.1  
19:26:06.8

next one is twenty-three eighteen.

**CAPT**

19:26:06.2  
19:26:07.0

yeah.

**CM**

19:26:10.2  
19:26:12.1

seventy-three thirty.

**CM**

19:26:12.8  
19:26:15.4

\* \* \*.

**CAPT**

19:26:15.2  
19:26:16.1

('kay).

**CM**

19:26:20.4  
19:26:22.7

\* \* \* (check).

**CAPT**

19:26:22.4  
19:26:23.4

yeah.

**CM**

19:26:24.3  
19:26:27.8

and then \* \* (just).



## Primary Communications

**CAPT**

19:26:27.4  
19:26:29.6

(just wanna add one).

**CM**

19:26:34.9  
19:26:36.2

(just/this) one?

**CM**

19:26:36.2  
19:26:38.0

(twenty-one) fifteen.

**CM**

19:26:43.3  
19:26:45.2

zero \* \* \*.

**CAPT**

19:26:45.5  
19:26:48.6

\* \* \* (zero).

**CM?**

19:26:57.5  
19:26:58.8

(zero zero).

**CAPT**

19:27:05.7  
19:27:08.5

\* \* \*. [sound of mumbling]

**CM**

19:27:08.5  
19:27:09.6

you know \* \* \*.

**CM**

19:27:09.5  
19:27:11.9

(where) that crazy number comin' from?

**CM**

19:27:11.5  
19:27:13.6

\* \* correct twenty-eight \* \*.

**CAPT**

19:27:13.5  
19:27:14.7

check 'em on the chart.

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**CM**

19:27:14.8  
19:27:15.5

I did.

**CAPT**

19:27:15.9  
19:27:16.4

yeah.

**CM**

19:27:17.0  
19:27:19.6

(yeah) I \* \* (hit/get) the dividers \* \* .

**CAPT**

19:27:18.8  
19:27:19.4

(okay).

**CM**

19:27:19.7  
19:27:24.1

(tryin') \* \* \*.

**CAPT**

19:27:20.5  
19:27:21.1

yeah.

**CM**

19:27:28.7  
19:27:29.8

\* \* .

**CM**

19:27:32.9  
19:27:35.4

\* \* (predict/forget) that.

**CAPT**

19:27:35.3  
19:27:38.9

\* \* \* . [sound of mumbling.] there it is.

**CM**

19:27:40.8  
19:27:45.5

yeah. yeah we'd have to do twenty-one knots to make that. that six o'clock.

**CAPT**

19:27:45.4  
19:27:47.3

that's (why/where) I sent them eight.

## Primary Communications

**CM**

19:27:50.4 so you don't want this those aren't the (waypoints) \* \*.  
19:27:53.4

**CM**

19:28:31.9 okay.  
19:28:32.5

**CAPT**

19:28:32.6 see there's all sorts of t– you don't necessarily have to go down the Old  
19:28:39.2 Bahama Channel. there's lots of places to duck in to.

**CM**

19:28:38.6 sure.  
19:28:39.1

**CM**

19:28:39.3 so yeah I was even– I was gunna say may– maybe if we had to we  
19:28:48.2 (should/could) go Crooked Island (passage/passed it) \* \* \* (Long)  
Island \* \* there's a lot of time...

**CAPT**

19:28:47.8 if (this/it) doesn't work out we can use San Salvador as the uh– a lee.  
19:28:52.4

**CM**

19:28:51.9 mhmm.  
19:28:53.0

**CM**

19:28:55.3 \* \* it'll break that swell.  
19:28:57.3

**CAPT**

19:28:59.0 yeah.  
19:28:59.8

**CM**

19:29:02.8 then you can see like there's this little dip– a little dip in the yellow.  
19:29:08.2 thing there.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:29:08.3  
19:29:09.1

yeah.

**CM**

19:29:10.2  
19:29:14.7

(so I mean that) this this wave height line.

**CAPT**

19:29:14.3  
19:29:15.0

mhmm.

**CM**

19:29:15.2  
19:29:16.8

that's for us.

**CAPT**

19:29:15.9  
19:29:18.0

that's gunna change from five meters to four meters.

**CM**

19:29:21.2  
19:29:22.7

I mean that's good though.

**CAPT**

19:29:22.2  
19:29:23.5

we're adjust(ing) accordingly.

**CM**

19:29:29.3  
19:29:32.3

I anchored off Guatemala for a hurricane once.

**CM**

19:29:32.8  
19:29:36.1

ya– you're in a corner there. know what I mean?

**CM**

19:29:37.2  
19:29:38.4

Guatemala and Belize.

**CM**

19:29:39.4  
19:29:40.7

you're in that corner...

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:29:40.0  
19:29:41.0

I've never been there.

**CM**

19:29:41.8  
19:29:47.6

I know it's not on the map but it's like this. (coast of/close to) Honduras then Guatemala and then Belize.

**CAPT**

19:29:47.4  
19:29:48.1

'kay

**CM**

19:29:48.5  
19:29:50.3

there's— there's no way out.

**CM**

19:29:50.7  
19:29:57.5

so you're so you're in the bottom corner of a funnel. (and then) hurricane come across here \* \*.

**CM**

19:29:57.9  
19:30:08.7

goin' into the dock was not a good idea. \* the dock. 'kay and goin' through it was not a good idea so we just went ten miles out wherever it was— (you know) and rode it out.

**CAPT**

19:30:08.2  
19:30:09.8

\* on the hook?

**CM**

19:30:09.4  
19:30:11.7

yeah with the engines. runnin'. ya know.

**CAPT**

19:30:12.1  
19:30:12.8

yeah.

**CAPT**

19:30:15.0  
19:30:19.4

alright. so watch your eyes. we're gunna dig for a San Salvador track.

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:30:20.0 okay– I'm gunna take a look here (outside/myself).  
19:30:23.7

**M1**

19:30:51.0 [sound similar to door slamming.]  
19:30:51.8

**M1**

19:31:19.0 [sound similar to door slamming.]  
19:31:20.0

**CM**

19:31:22.7 feels like less wind but then you know but we did turn too.  
19:31:26.0

**CAPT**

19:31:25.9 yup.  
19:31:26.8

**CM**

19:31:26.5 I'd be I'd be tempted to look for a catalog you know we still have that  
19:31:31.3 big book?

**CAPT**

19:31:31.7 we do it's on the bottom \* \* I wanna see what they have here cause I  
19:31:37.3 know @EX2M and I we're pullin' this out and we're goin' through all...

**CM**

19:31:37.4 recently?  
19:31:38.5

**CAPT**

19:31:38.2 ...(handled/channel) yeah.  
19:31:39.7

**CAPT**

19:31:43.4 yeah.  
19:31:44.2

## Secondary and Electronic Communications

**M1/M2**

19:31:41.1 [sound of electric telephone ringing.]  
19:31:43.1

## Primary Communications

**CM?**

19:32:20.2  
19:32:21.5

\* \*.

**CAPT**

19:32:29.6  
19:32:33.7

(and) we'll take one more peek over the side.

**CM**

19:32:49.1  
19:32:50.8

what's your checking course?

**AB-1**

19:32:51.1  
19:32:52.4

one-five-five.

**CM**

19:32:57.8  
19:32:60.0

okay. so we have to find a chart.

## Secondary and Electronic Communications

**M1/M2**

19:31:46.8  
19:31:49.1

[sound of electric telephone ringing.]

**CM-ET**

19:31:51.9  
19:31:52.6

bridge. chief mate.

**CM-ET**

19:31:53.3  
19:31:53.9

\*.

**CM-ET**

19:31:56.1  
19:31:58.0

one-one-two point one.

**CM-ET**

19:31:58.8  
19:32:00.5

eighty-two and eighty-three.

## Primary Communications

**M2**

19:33:08.5  
19:42:42.8

SUMMARIZED AREA  
[CAPT and CM discussed the BA [British Admiralty] chart for the San Salvador Island area. Specifically they discussed locating chart number 2579. The captain left the bridge to look for the chart below. The CAPT returned and said everything was “squared away” but he could not find the chart. The CAPT and CM later found the chart somewhere on the bridge. CAPT and CM discussed chart catalogs and what US chart numbers may correspond with BA charts.]

**ALL CHAN.**

19:42:42.8  
19:42:48.6

[Area of non-pertinent conversation or no conversation.]

**CAPT**

19:42:48.6  
19:42:51.2

umm I'm gunna #-can this.

**CM**

19:42:51.6  
19:42:52.5

thank you.

**CM**

19:42:53.5  
19:42:59.6

uhh can you uhh– do you wanna write any orders (down/or whatever)?

**CAPT**

19:42:59.7  
19:43:03.6

\* (verbal) and then refer to that.

**CM**

19:43:03.6  
19:43:04.2

okay.

**CM**

19:43:06.6  
19:43:07.0

alright.

**CAPT**

19:43:07.2  
19:43:09.0

just follow the rhumb line.

## Secondary and Electronic Communications



## Primary Communications

**CM**

19:43:09.0  
19:43:09.8

got it.

**CAPT**

19:43:09.6  
19:43:15.8

follow the rhumb line courses and steer to make good rhumb line courses. (steer the) \* \* (route for) (weather/rudder).

**CM**

19:43:16.0  
19:43:16.7

excellent.

**CAPT**

19:43:17.6  
19:43:18.7

\* \*.

**CAPT**

19:43:19.2  
19:43:20.5

less is more.

**CAPT**

19:43:21.0  
19:43:25.6

next thing you know you're writin' two or three pages on that and your interpretation(s) a little bit different.

**CM**

19:43:25.5  
19:43:29.9

yeah but you already did it. you wrote that \* \* see what we got with the weather so.

**CAPT**

19:43:29.2  
19:43:30.5

\* what it is.

**CM**

19:43:30.4  
19:43:31.0

yes sir.

**3M?**

19:43:36.8  
19:43:37.6

how are ya?

**CAPT**

19:43:37.8  
19:43:38.3

how do? [spoken in the tone of a greeting.]

## Secondary and Electronic Communications

## Primary Communications

**3M**

19:43:38.4  
19:43:39.3

\* I do.

**CM**

19:43:39.6  
19:43:41.6

go ahead and dim the lights a little bit.

**CAPT**

19:43:41.9  
19:43:43.6

\* \* \* .

**CM**

19:43:53.2  
19:43:55.5

(it says) twenty-two twenty-four.

**CM**

19:43:57.3  
19:43:59.3

see the weather we have the latest.

**3M**

19:43:59.3  
19:44:00.9

it isn't put in here \* .

**CM**

19:44:00.7  
19:44:02.2

yeah we just did this.

**3M**

19:44:02.0  
19:44:02.6

okay.

**CM**

19:44:03.2  
19:44:05.9

but there is a list of waypoints put in \* \* .

**3M**

19:44:07.6  
19:44:08.8

okay.

**CM**

19:44:09.2  
19:44:11.0

(and) (this/the list) right here.

## Secondary and Electronic Communications

## Primary Communications

**3M**

19:44:15.7 alright so we're just navigating on the chart? (no/not with) G-P-S.  
19:44:19.2

**CM**

19:44:18.9 correct. well yeah. just if you wanna plug 'em in and (aim for) \* \* \*.  
19:44:23.0

**CM**

19:44:25.8 (I mean) like I said we just did this.  
19:44:27.6

**CAPT**

19:44:32.5 got heavy weather.  
19:44:34.1

**?**

19:44:34.0 \* (you say?)  
19:44:34.7

**CAPT**

19:44:34.7 safety of the ship comes first.  
19:44:36.6

**3M**

19:44:41.4 alright.  
19:44:42.0

**CAPT**

19:44:43.2 \* turn over the watch (for/to) me.  
19:44:44.9

**CM**

19:44:44.9 alright.  
19:44:45.5

**CM**

19:44:49.8 so yeah. wind's are on your port quarter here. (it's) out of the north.  
19:44:53.5

**?**

19:44:54.7 \* \* \*.  
19:44:57.7

## Secondary and Electronic Communications

## Primary Communications

?

19:44:58.1  
19:44:58.4

okay.

**CM**

19:44:58.5  
19:45:03.7

steering one-five-zero for south of San Salvador. and still (max turns/connects to).

**3M**

19:45:05.5  
19:45:07.0

(alright/I'm sorry) one-five zero.

**CM**

19:45:06.9  
19:45:07.5

yes.

**3M?**

19:45:07.7  
19:45:09.0

\* \* \* .

**AB-1**

19:45:08.8  
19:45:10.6

one-five-five on top.

**3M**

19:45:11.1  
19:45:13.4

one-five-zero nineteen and a half.

**CM**

19:45:13.6  
19:45:15.0

I'm gunna log out.

**CAPT**

19:46:41.5  
19:46:49.8

give you a (minute/moment) to digest that. \* \* \*. (make sure / you let me know) if you see anything out of the ordinary to be concerned about.

**CAPT**

19:47:24.2  
19:47:27.3

\* \* \* fifteen miles.

**3M**

19:47:27.5  
19:47:31.9

\* \* \* .

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:47:31.6 (yes) San Salvador's gunna afford a lot of lee.  
19:47:35.6

**3M**

19:47:36.6 which will be good.  
19:47:38.8

**CAPT**

19:47:38.4 because there's your zero-two hundred position.  
19:47:41.3

**CAPT**

19:47:42.6 (storm) will be right about there.  
19:47:45.8

**3M**

19:47:46.3 as opposed to...  
19:47:48.5

**CAPT**

19:47:49.8 (when your/right) around here somewhere.  
19:47:51.2

**CM?**

19:47:51.0 yeah that two o'clock (puts us) here. yeah.  
19:47:53.9

**3M**

19:47:55.4 I just hope it's not worse than what this is saying because that's  
19:48:17.0 Weather Underground [weather related website -  
*www.weatherunderground.com*] is— saying it's a lot. they're sayin' it's—  
more like eighty-five— not fifty \* wind.

## Secondary and Electronic Communications

**AB-1**

19:47:59.6 alright \*. (steerin') one-five-zero.  
19:48:04.3

**AB-3**

19:48:04.4 okay.  
19:48:05.1

## Primary Communications

**CAPT**  
19:48:17.1 did you (notice/minus) the wind on the ship.  
19:48:20.0

**3M**  
19:48:26.4 all in that– all in this place (right here).  
19:48:30.8

## Secondary and Electronic Communications

**AB-1**  
19:48:04.9 one-five-five up top.  
19:48:06.9

**AB-1**  
19:48:07.6 \* \* lock the rooms \* \* doors comin' down.  
19:48:12.8

**AB-3**  
19:48:12.7 I'll be ready.  
19:48:14.1

**AB-1**  
19:48:14.0 that's all I got.  
19:48:15.2

**AB-3**  
19:48:15.2 what about contacts out there?  
19:48:16.6

**AB-3**  
19:48:18.3 \* \* \*.  
19:48:19.5

**AB-1**  
19:48:20.2 yeah that's gunna be...  
19:48:22.3

**AB-3**  
19:48:22.3 I think they said we could though.  
19:48:24.4

**AB-1**  
19:48:24.6 I dunno. we gon' find out at the end of the next fo-  
19:48:27.6 hours [four hours].

**Primary Communications**

**3M**  
19:48:33.2 but what they're sayin'—  
19:48:37.1

**3M**  
19:48:39.6 they're— they're saying this is much more powerful than this is saying  
19:48:54.0 right now. \* \* so it's more powerful here— then maybe it's more powerful  
here.

**3M**  
19:48:57.4 alright so you know the...  
19:49:01.0

**CM**  
19:49:00.9 \* \* through here.  
19:49:02.7

**Secondary and Electronic Communications**

**AB-1**  
19:48:28.3 right now it's lookin' like bout six o'clock six thirty.  
19:48:31.8

**AB-3**  
19:48:31.6 okay.  
19:48:32.2

**AB-1**  
19:48:32.4 (alright).  
19:48:33.0

**AB-3**  
19:48:33.2 (gotchya).  
19:48:34.5

**AB-1**  
19:48:35.5 (second mate) one-five-zero.  
19:48:37.3

**3M**  
19:48:37.5 one-five-zero.  
19:48:38.4

## Primary Communications

**3M**

19:49:02.7  
19:49:07.7

\* \* there's a list of waypoints \* \* .

**CM**

19:49:07.4  
19:49:10.3

printed here and they're listed in there \* the track.

**3M**

19:49:10.5  
19:49:13.4

and those correspond to these here right?

**CM**

19:49:12.7  
19:49:13.1

correct.

**3M**

19:49:13.4  
19:49:15.4

okay very well. I understand.

**CM**

19:49:17.4  
19:49:27.5

and uh— I did one for \*. (I poked through the charts and) (hopefully) the charts are a better scale here \* \* and...

**3M**

19:49:26.6  
19:49:28.2

\* \* .

**CAPT?**

19:49:27.9  
19:49:29.1

one-sixty.

**3M**

19:49:29.0  
19:49:31.2

\* \* \* .

**3M**

19:49:32.9  
19:49:37.3

I'll ask @2M when she gets (up here) \* \* . and here's the catalogs ...

**CAPT**

19:49:37.2  
19:49:38.1

by that time...

## Secondary and Electronic Communications



## Primary Communications

## Secondary and Electronic Communications

**3M**

19:49:38.1

...\* \*.

19:49:38.9

**CAPT**

19:49:39.0

...we'll be passing clear on the backside of it. just keep steamin' our speed is tremendous right now. the faster we're goin' the better. this will put the wind on the stern a little bit more— it's givin' us a push.

19:49:49.6

**3M**

19:49:49.9

okay.

19:49:50.5

**CAPT**

19:49:51.1

(I'm gunna be back).

19:49:52.9

**?**

19:49:54.0

\*.

19:49:55.0

**CAPT**

19:49:55.3

just bust ass to get down.

19:49:56.6

**CM**

19:49:59.3

stay on the track here \* \*.

19:50:01.3

**3M**

19:50:02.3

okay.

19:50:02.8

**3M**

19:50:04.1

sure we'll have a good radar return. we'll make sure we stay...

19:50:07.2

**CAPT**

19:50:07.4

yeah.

19:50:07.7

## Primary Communications

**3M**

19:50:08.2  
19:50:09.8

...stay off of there.

**CAPT**

19:50:09.5  
19:50:10.0

yeah.

**3M**

19:50:10.4  
19:50:14.3

yeah that's so– that's what we said \* (we should) \* \* there.

**CAPT**

19:50:14.7  
19:50:16.6

alright. cool.

**CAPT**

19:50:18.8  
19:50:21.0

okay to dog down these lights.

**3M**

19:50:20.5  
19:50:22.5

oh yeah absolutely. \* let's do that.

**CM**

19:50:28.1  
19:50:34.0

a little less urgent. umm I'm going to need your (signature on the sign in sheet).

**3M**

19:50:33.9  
19:50:35.4

\* that's right \* the end of the month.

**CM**

19:50:34.9  
19:50:38.6

okay I'll put some \* \* \*.

**3M**

19:50:38.3  
19:50:39.5

[sound of chuckling]

**3M**

19:50:39.5  
19:50:42.6

well it's (more like)– I you know– I mean– I know what my watch is– I mean it's...

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:50:42.5  
19:50:43.6

roger that– yeah.

**3M**

19:50:43.6  
19:50:46.5

I just I can go print it out (and sign it) \* \* \* .

**CM**

19:50:46.2  
19:50:47.7

\* \* \* .

**CM**

19:50:47.8  
19:50:49.5

um what's the problem here?

**3M**

19:50:51.0  
19:50:56.5

I (can/did) put a couple uh– umm– car straps on those two life rafts–  
just in case.

**CM**

19:50:56.4  
19:50:57.1

excellent.

**3M**

19:50:57.9  
19:51:05.5

\* \* \* and the hospital and the slop chest and things the first [references  
the AE] asked me to secure.

**CM**

19:51:05.4  
19:51:08.6

\* \* \* .

**3M**

19:51:08.6  
19:51:09.8

I know.

**3M**

19:51:12.0  
19:51:29.2

\* \*– I saw what you did with the shackle \* that's fine for now. I didn't use  
that long shackle down there because (neither one of those) life raft–  
that's the one with the cables attached to it like they \* \* all over. \* \* \* .

## Secondary and Electronic Communications

## Primary Communications

**CM**

19:51:28.9  
19:51:31.7

(couldn't get anything a little longer) \* \* \* .

**3M**

19:51:31.9  
19:51:41.7

I tried to turn it so \* \* \* . I'll we'll get it right. I didn't wanna bother the boatswain today. I- I didn't find anything (out there) \* \* \* . we'll- we'll get it.

**CAPT**

19:51:43.5  
19:51:45.2

(alright) I'll initial.

**CAPT**

19:51:47.7  
19:51:48.6

(initial).

**CM?**

19:51:49.3  
19:51:49.8

(alright).

**CAPT**

19:51:50.3  
19:51:57.9

sent them eight o'clock for arrival. \* I told them (I'd) update (them) in the morning during the regular(ly) schedule(d) E-T-A to San Juan.

**3M**

19:51:57.9  
19:51:58.6

got it.

**CAPT**

19:51:58.4  
19:52:08.2

so I mean everything's \* \* probably got (the) better part of a knot \* (it's push there).

**3M**

19:52:08.1  
19:52:09.2

it's not bad right now.

**CAPT**

19:52:11.9  
19:52:13.7

(alright).

## Secondary and Electronic Communications

**Primary Communications**

**3M**

19:52:12.2  
19:52:13.5

(\* \* \*/all the rain).

**3M**

19:52:13.5  
19:52:14.8

\* \* \*.

**3M**

19:52:15.5  
19:52:20.3

(okay) and the (frequency/different speed/different sea) on the stern–  
(blocking/logging) that...

**CM**

19:52:22.1  
19:52:23.9

\* \* \*.

**CM**

19:52:23.9  
19:52:26.2

well? well. well...

**3M**

19:52:26.6  
19:52:27.0

'kay.

**3M**

19:52:31.9  
19:52:33.8

I (had this band/understand the) \*.

**Secondary and Electronic Communications**

**CAPT**

19:52:24.8  
19:52:25.9

how goes it @AB-3?

**AB-3**

19:52:26.8  
19:52:27.6

eh not bad.

**CAPT**

19:52:27.6  
19:52:29.3

have a (nice swell/lot smoother) (out there) \*.

**AB-3**

19:52:33.3  
19:52:35.2

storm gunna intensify?

**Primary Communications**

**CM**  
19:52:33.6 was it you?  
19:52:34.3

**3M**  
19:52:35.4 \* Jacksonville  
19:52:36.9

**3M?**  
19:52:38.3 goodnight.  
19:52:39.1

**CAPT**  
19:54:36.1 \* \* \*  
19:54:38.3

**AB-3**  
19:54:39.0 go ahead (it's already/just get a) (filter).  
19:54:41.4

**CAPT**  
19:54:42.5 everything's good now.  
19:54:43.8

**3M**  
19:54:44.9 talkin' (bout) the wind?  
19:54:46.0

**CAPT**  
19:54:46.7 it's right on our # pushin' us.  
19:54:49.0

**Secondary and Electronic Communications**

**CAPT**  
19:52:35.9 yes.  
19:52:36.5

**CAPT**  
19:53:02.3 before it got dark. we altered our course. picked a  
19:53:19.2 new route (to) get farther away from the low. this  
course will put the wind on our stern which gives  
us a nice— nice push. so fasten your belt till we get  
on that backside of it.

## Primary Communications

**CAPT**

19:54:55.1  
19:55:04.6

I will definitely be up for the better part of your watch. so if you see anything you don't like don't (hesitate to change) course and give me a shout.

**CAPT**

19:55:06.8  
19:55:09.2

you all comfortable with the chart back there and...

**3M**

19:55:10.1  
19:55:13.8

yeah it's all good– I already put a few lines on the radar and something...

**CAPT**

19:55:13.6  
19:55:14.1

'kay.

**3M**

19:55:14.4  
19:55:15.2

see what happens.

**3M**

19:55:16.8  
19:55:28.5

settle in here– when something is \* \* something \* \* \* (something else) \*  
\* just right there especially going through...

**CAPT**

19:55:28.6  
19:55:29.8

excuse me @AB-3.

**3M?**

19:55:30.0  
19:55:32.2

\* \* \*.

**CM**

19:55:38.8  
19:55:45.0

meant to do this when you came up here– this is the work hour log \* \*.

**CAPT?**

19:55:39.5  
19:55:43.7

\* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

19:57:09.5 I have the B-V-S new waypoint route sheet. I'm gunna enter it in on my  
19:57:17.6 computer I'll bring it back up.

**CM**

19:57:17.8 okay. thank you.  
19:57:19.3

**ALL CHAN.**

19:57:19.3 [At about 19:59:22 the CAPT and CM had a brief unintelligible  
20:20:18.0 conversation and the CAPT's voice was not detected again on the  
bridge until 04:09:49.9. After the CAPT and CM's brief exchange, the  
remainder of this time interval contained no conversation.]

**3M**

20:20:18.0 this thing might get us pretty hard in the morning.  
20:20:22.6

**AB-3**

20:20:22.7 oh yeah?  
20:20:23.0

**AB-3**

20:20:27.8 what's the latitude of the eye right now?  
20:20:29.8

**3M**

20:20:31.6 uh- I couldn't tell ya off the top of my head. it's uh- it's close.  
20:20:37.2

**AB-3**

20:20:37.6 still \* (south) and east of us?  
20:20:40.2

**3M**

20:20:39.4 uh huh- I'll show you with the program. you'll have to get over here.  
20:20:43.6

**3M**

20:20:58.8 this is us right here now. it's (about/not) right. so it's here.  
20:21:04.3

## Secondary and Electronic Communications



## Primary Communications

**3M**

20:21:05.9 twenty-hundred [time given in UTC] it's about this. (this is).  
20:21:09.8

**3M**

20:21:11.8 (through/lee of) the island \* also right there.  
20:21:16.3

**3M**

20:21:16.9 \* (had) my G-P-S \* and this just shows us tell us– this is us from here to  
20:21:23.5 that.

**AB-3**

20:21:23.2 mmm.  
20:21:23.8

**3M**

20:21:24.3 and that's what maybe– this is a hundred miles– that's maybe a  
20:21:33.5 hundred and twenty miles away– that's not too far.

**AB-3**

20:21:33.6 mmm.  
20:21:34.3

**3M**

20:21:36.3 go out to here the next one– here you can see this is.  
20:21:40.8

**AB-3**

20:21:41.0 (mhmm).  
20:21:42.1

**3M**

20:21:41.8 like seventy miles away and that's in six hours about two o'clock in the  
20:21:46.3 morning.

**AB-3**

20:21:46.6 where are we? the red dot(s) here?  
20:21:48.4

**3M**

20:21:48.0 uh this thing shifts \* \* \* ...  
20:21:50.3

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

20:21:50.2  
20:21:52.4

(\* \*\*/\* gunna catch us).

**3M**

20:21:52.1  
20:21:57.1

... \* \* and hurricane is right there.

**AB-3**

20:21:56.7  
20:21:59.2

and this is it's track line right there?

**3M**

20:22:00.1  
20:23:30.2

this red– yeah. goes (from/through) here and goes back see how it follows the track up \* \*. for us– this is oh [zero] three hundred– another– (four) hours. so this is here– this is early in the morning– here– this is (my plot) here the \* \* \*. the other thing that concerns me is that this says the wind is fifty-three (knots) and \* \* \* at the eye– about the highest speed over here has it at forty-three– ten miles less. I listened to the Weather Channel and they were talkin' about it being more powerful than that. so I am wondering if it's– from what I remember I heard numbers like seventy or eighty (miles per hour). if this is off by forty knots then (we're back) and (we're gunna be here) \* sixty here. you know I don't know– that's– so this is the (second) diversion (you know/from hell). \* first we were gunna do this. (gunna/then) come down here and do this. this our original course line– we just moved it to the south– you know. and then we just adjust(ed) it again to the south.

**3M**

20:23:33.2  
20:23:38.0

I guess if it doesn't get too crazy (we'll just) get down here.

**3M**

20:23:37.9  
20:23:42.1

it's just I don't I don't like being so close to something here

**AB-3**

20:23:40.8  
20:23:42.0

mhmm. mhmm.

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

20:23:42.0

20:23:43.7

what time we gunna get through it?

**3M**

20:23:44.4

20:23:47.6

this right here is going to be uhh...

**AB-3**

20:23:48.2

20:23:49.6

that'll be in the daylight.

**3M**

20:23:49.9

20:24:06.9

no this is umm– this is gunna– there's midnight. \* like uh– one or two in the morning which will be right (about/past) here. right after that turn so maybe three o'clock in the morning– maybe three– four o'clock in the morning. it's very \*.

**AB-3**

20:24:06.3

20:24:07.5

mmm.

**3M**

20:24:11.4

20:24:15.8

(let's) see how this thing goes. we can't outrun it you know.

**3M**

20:24:17.9

20:24:30.5

it's more powerful than we thought. \* this is this is supposed to hook right here. it's supposed to make this stop– getting any closer it's gunna turn toward the north– what if it doesn't.

**AB-3**

20:24:30.6

20:24:31.4

mmm.

**3M**

20:24:33.9

20:24:35.8

yeah. \* \*.

**AB-3**

20:24:37.0

20:24:42.5

what if we get close– we get jammed in those islands there and it starts comin' at us. I don't know.

## Secondary and Electronic Communications

## Primary Communications

**3M**

20:24:42.1 that's what I'm thinking. maybe I'm just being a chicken little. I don't  
20:24:45.7 know.

**AB-3?**

20:24:47.3 turn around and go back.  
20:24:48.9

**3M**

20:24:48.6 (we're not/yeah).  
20:24:49.3

**3M**

20:24:53.5 it's not like we're— it's not like we're gunna be trapped. you know.  
20:24:58.6

**M1/M2**

20:24:58.7 SUMMARIZED AREA  
20:50:14.1 [3M and AB-3 began having a long conversation that was characterized  
as being not pertinent. Just prior to the next portion of transcribed lines  
that start at 20:50:14.2, they were discussing different types of  
organizational corruption in various industries, maritime and otherwise.]

**3M**

20:50:14.2 yup. everything's like that.  
20:50:16.9

**3M**

20:50:18.7 like @EXCM-EY— the first time he fell asleep on watch— he must have  
20:50:23.4 been "huhh that was kind of nice and refreshing."

**AB-3**

20:50:23.5 yeah. yeah.  
20:50:24.7

**AB-3**

20:50:25.8 who's gunna say anything. [sound of laughter]  
20:50:27.9

**3M**

20:50:26.9 yeah. "we didn't we didn't crash into anything. there's nobody out here  
20:50:31.3 and what's the problem."

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

20:50:33.9

20:50:36.0

\* does it all the time.

**3M**

20:50:37.9

20:50:41.1

then he got caught and nothing happened. then he got caught again and nothing happened.

**AB-3**

20:50:41.9

20:50:42.2

yeah.

**3M**

20:50:42.4

20:50:43.6

# kept on doing it.

**AB-3**

20:50:43.5

20:50:44.4

uh huh.

**3M**

20:50:49.5

20:50:59.7

or whatever it is– whatever little # thing– that people do- "huh– how 'bout that. got away with it and nobody noticed. nobody cared."

**ALL CHAN.**

20:50:59.7

20:57:02.5

[Area of non-pertinent conversation or no conversation.]

**3M**

20:57:02.5

20:57:19.5

the National Hurricane Center was supposed to issue their– next advisory at– eight. how long that takes 'em to– work it's way through the system– get to us.

**AB-3**

20:57:19.4

20:57:21.2

where is that located? out innn...

**3M**

20:57:21.0

20:57:21.7

Miami

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

20:57:21.7

oh Miami.

20:57:22.7

**3M**

20:57:23.5

I think so.

20:57:24.9

**ALL CHAN.**

20:57:24.9

[Area of non-pertinent conversation or no conversation.]

21:17:46.8

**AB-3**

21:17:46.8

if we have to veer into those islands– cutting inside. how long does that take to um plot it– do all this uh– ARPA and everything?

21:17:55.0

**3M**

21:17:56.1

well you can put it on the chart almost instantly.

21:17:58.5

**AB-3**

21:17:58.4

yeah. yeah.

21:17:59.0

**3M**

21:17:59.4

umm.

21:18:00.1

**3M**

21:18:01.9

draw a line– make sure it doesn't go over anything and see where you are now. (in here) and put a put a position on the chart and– \* your setting put down– and (bring it in) that's nothin' and then uhh– put the waypoints in– in into the machine– it's no– no big deal. (really/review) within a few minutes. it depends on how many you're puttin' in– I came up they had five new waypoints.– and I don't do it that often– I just got out the manual– and once I got the manual out and maybe another five– ten minutes– I had it all in there.

21:18:40.4

**3M**

21:18:43.2

I don't like– just– the chart alone. I like to be able to monitor it.

21:18:48.4

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

21:18:48.4      ahh no. I mean if you're goin' through there at night and you don't know  
21:18:53.0      what the currents are— especially these winds...

**3M**

21:18:53.1      yeah I heard ya.  
21:18:54.4

**3M**

21:18:54.6      the next thing you know.  
21:18:56.4

**3M**

21:18:56.8      yeah I'm not gunna rely on dead reckoning— I wanna know that I'm on  
21:19:26.0      course— I wanna know the position every minute you know.— I wanna  
know right where I am on the trackline.- I (have it) I put the line on the  
on that radar cause that's the only one that that takes it.- all these other  
ones are drawn.— on this radar over here— for me to do that— put the  
lines in— uhh— it's a little bit more involved.

**AB-3**

21:19:27.0      (oh man) if you gotta (divert/if) that hurricane veers quickly— how much  
21:19:36.5      time do ya have to (you know) when it's set up— if you gotta duck  
inside.

**3M**

21:19:40.3      well right now— we got nowhere to go. you would have to— but later on  
21:19:59.5      there's a gap in the chart— you can head south— you know.— it's a good  
idea to have a— really— ideally— what (you/we) should have is a other  
alternate— you should have a backup route...

**AB-3**

21:19:59.1      yeah right. (there's no) escape plan.  
21:20:01.3

**3M**

21:20:00.1      ...you know what I mean?  
21:20:01.5

## Secondary and Electronic Communications

## Primary Communications

**3M**

21:20:01.6 yeaaah. it should be ready to go. you know a plan B– if this happened  
21:20:20.4 we do this– if this happens we do this– because already twice now–  
we– you know– we left port without- expecting any weather. that's why  
we didn't ask the longshoremen for storm lashes. which we should  
have.

**AB-3**

21:20:20.5 yeah.  
21:20:21.2

**3M**

21:20:21.2 and then we headed south– we almost (drove/skirt) right under it. and  
21:20:34.8 by this morning we had diverted– because– we felt it was gunna be an  
issue. and then (I/we) come up tonight and we diverted again–  
because...

**AB-3**

21:20:35.7 yeah I remember when I came on here back in February– I was  
21:20:50.3 asking– well you know– you know about the hurricane history (of/on)  
these things and he said– everybody's like– just shrugging like–  
"nuhhhh– whatever"– you know. "we never see anything ever."

**3M**

21:20:50.4 short memories.  
21:20:51.3

**AB-3**

21:20:51.4 yeah– I mean...  
21:20:53.1

**3M**

21:20:59.2 well some captain would have taken one look at that and (went) "we're  
21:21:07.2 gunna go the Old Bahama Channel." "we're not we're not takin' any  
chances (here)."

**AB-3**

21:21:07.3 that's what I thought we– we were gunna do.  
21:21:08.9

**3M**

21:21:08.8 "...and we'll go well south of it and we'll be gettin' in a little bit late.– we'll  
21:21:15.5 be off schedule though– but we'll catch up"

## Secondary and Electronic Communications



## Primary Communications

**AB-3**

21:21:17.8 you know what I mean– just # islands– on your # edge and the  
21:21:27.1 hurricane on your other edge. you got yourself a (collision/condition)  
here.

**3M**

21:21:24.8 yeah.  
21:21:25.6

**AB-3**

21:21:41.5 unless you think (the) wind speed was still low enough that \* \* .  
21:21:46.1

**3M**

21:21:46.6 yeah and to be fair (enough– those were/ and that would be) the  
21:22:03.3 forecast winds and showing uhh– and it's still showing– that B-V-S is  
still showing that we're gunna get into like some forty-five knot winds  
here.– and– umm–

**3M**

21:22:07.2 I just hope that's the case– like (you/they) said.  
21:22:11.3

**3M**

21:22:21.6 I don't know. I'm not gunna second guess somebody.– the guy's been  
21:22:31.7 through a lot worse than this. he's been sailing for a long– long time–  
he did it up in Alaska.

**AB-3**

21:22:34.9 well I'll never have faith in the # like I used to though. [sound of quick  
21:22:43.7 chuckle] captain @UNK sailed us right into one.

**3M**

21:22:44.1 yeah I'm concerned about it but...  
21:22:45.6

**AB-3**

21:22:45.1 \* all– all conf– naive and confidence (in 'em/though).  
21:22:49.1

**3M**

21:22:52.4 yeah I've– I've had that happen to me a couple of times myself.  
21:22:55.3

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

21:22:55.2

oh they know what they're doing. [spoken in a sarcastic tone]

21:22:56.7

**3M**

21:23:01.3

well you didn't (say anything-- you here to (tell the tale)-- so by that token-- I guess it I guess they just sit in some \* \* you know. (a number) of-- departures and arrivals-- that's a successful career.

21:23:14.9

**AB-3**

21:23:15.0

as I got thrown to the floor-- to the deck-- I could hear the guy screamin' [AB-3 then made a sound of dramatic yell.]

21:23:24.0

**3M**

21:23:23.9

was that the captain?

21:23:24.8

**AB-3**

21:23:24.9

yeah.

21:23:25.4

**3M**

21:23:25.5

[sound of laugh]

21:23:26.0

**AB-3**

21:23:26.1

we we're goin' over though. this big wave-- we were rollin'-- its-- came in and slammed us right when the-- I mean we came to this shuddering stop-- I mean I was sure we we're goin' over-- positive.-- just think about it-- it's like death was actually-- I mean it was-- we were fated to die. I mean shoulda seen it man-- I mean no one hardly spoke for like for 'bout like two-- two to three days before people even started talkin' again.

21:24:16.8

**3M**

21:23:58.9

really?

21:23:59.5

**AB-3**

21:23:59.7

it's like people were like shell shocked. you know? just like. then slowly then-- then then something happened \* \* .

21:24:08.3

## Secondary and Electronic Communications

## Primary Communications

**3**

21:24:08.4  
21:24:08.8

right.

**AB-3**

21:24:08.9  
21:24:12.0

you know but I mean everybody feeled death was like right on us man  
you know. \* it was like this presence you know?

**3M**

21:24:21.6  
21:24:24.2

yeah with the captain screamin' "ahhh".

**AB-3**

21:24:23.9  
21:24:37.9

oh man that thing– first it started you know– pitchin' and rollin' then it  
got worse and worse. then all the sudden it started like some kind of  
wild animal just tryin' to break out of its uhh– like a # bull in a stall you  
know.

**3M**

21:24:37.8  
21:24:38.5

[sound of chuckle]

**AB-3**

21:24:38.4  
21:24:54.4

man it started goin' wilder and wilder and wilder and pretty soon it's like  
"man this is gettin' outta # control– man" ya know. and umm– then all  
the cargo broke loose and ahhh my god.

**3M**

21:24:55.0  
21:25:00.1

you know like I said to me like when I get on a plane– it's kinda outta  
my hands.

**AB-3**

21:24:59.9  
21:25:08.4

yeah that's what I said it's all whatever's gunna happen gunna happen.  
this is– bring your rosary beads.

**AB-3**

21:25:14.6  
21:25:19.9

you know I had a sprained wrist– they had like this stupid handles on  
the helm you know?

**3M**

21:25:20.0  
21:25:20.5

right.

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

21:25:20.3 it # threw me to the floor and I didn't let go. from the— thing. stretched  
21:25:42.8 some ligaments out. he can have— he had both hands on his radar you  
know? he had the handles over there so he can hang on. I had one  
hand on the wheel and it threw me. Hugo— Hugo [Reference to  
Hurricane Hugo, September 1989] threw me. [sound of chuckle]

**3M**

21:25:42.4 [sound of chuckle] (no kiddin').  
21:25:43.9

**ALL CHAN.**

21:25:43.9 [Area of non-pertinent conversation or no conversation.]  
21:28:28.8

**AB-3**

21:28:28.8 speaking of cargo lashings— but you don't have any spares down there.  
21:28:36.9 I didn't— I found two little screws (stripped).

**3M**

21:28:37.5 those straps...  
21:28:38.2

**AB-3**

21:28:38.1 stripped out— you know the binders in 'em.  
21:28:39.7

**3M**

21:28:39.8 oh yeah we're comin' up short.  
21:28:41.3

**AB-3**

21:28:40.8 we're lookin' around and I'm like— "whhhhaaaat the #— man?" are they  
21:28:49.1 (using/used on) every damn thing on here? had to work the whole  
damn length of the cargo hold to find a spare.

**3M**

21:28:49.6 yeah sometimes they move around and there's— you know they— I— I  
21:29:09.1 don't why or how that happens. plus they get # up you know. and then  
those get— they throw those in the corner and— we come up short a few  
times. and uhh— we forget about it. it's like why the # am I the one  
addressing this #?

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

21:29:09.4 (yeah).  
21:29:09.9

**3M**

21:29:010.0 (then) every time something breaks– \* \* ...  
21:29:15.0

**AB-3**

21:29:13.9 (cause you're) takin' care of the equipment.  
21:29:16.0

**3M**

21:29:16.3 ahhh (it's like) nawww I– I– I mean it's just this thing– whether it's be  
21:29:25.2 uh– the– the winches orrr (#) whatever it is that's # up– I'm like "what  
nobody else notices this #?"

**AB-3**

21:29:25.7 no.  
21:29:26.1

**3M**

21:29:26.2 nobody else knows anything and then I'm always– you know– the  
21:29:30.0 bearer of bad tidings– you know.

**AB-3**

21:29:30.3 yeah. oh yeah. "there's that troublemaker again."  
21:29:33.4

**3M**

21:29:33.6 yeah. I'm like...  
21:29:34.6

**AB-3**

21:29:36.0 that's how I've learned to keep my mouth shut at those safety  
21:29:43.9 meetings– man. they don't wanna hear anything you got to say so don't  
say anything.

**3M**

21:29:43.4 well certainly at a safety meeting cause you gotta call 'em out in front of  
21:29:46.6 everybody...

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

21:29:47.2

21:29:47.6

yeah.

**3M**

21:29:47.5

21:29:56.5

...sometimes that's the only way to get any action on things. really. If-  
if- if you brought something up- and it doesn't and it doesn't....

**AB-3**

21:29:56.7

21:29:58.1

throw 'em under the bus.

**3M**

21:29:58.7

21:30:44.7

you know- well the first- with things like that- it's a rusty rail or a step  
or \* (say "hey bos' [boatswain])- hey what about that?" mention that to  
the mate \*. if nothing happens after a week or two and you really feel  
like it's a serious issue (maybe you can) talk to the chief mate- you  
know- "hey man." you know you get 'em one on one. "I've already  
raised this issue-" but you know- "what's up with this?" and then if still  
nothing gets done- you bring it up at the safety meeting then it goes in  
the minutes and then it gets done. like magic.- yeah so I- I. - I mean-  
you know and in that case- you know- that's always the decision  
everyone's gotta make for themselves- you know- whether or not they  
want to- you know how- how strongly do you feel that this is a- a leg-  
itimate # issue here and somebody's really gonna get hurt- then  
bring it up. I don't give a # if I...

**AB-3**

21:30:45.4

21:31:14.5

ahh # one time we we're- you know this was like- \* "hey how many of  
us how which vents to close if we have to dump that C-O-two on a car  
carrier?" we don't even know. they're not and they started all this #-  
and then they're not even labeled you know. we don't know which ones  
to close you know. we'll just close all of 'em and it's like "okay" and then  
all the sudden- hey start thinkin' about it it's like- "ohh you know what  
maybe we should..." and we went out there and test 'em and they were  
rusted # solid man it was like "well- well- well" you know. [AB-3  
continued to speak about an experience on another ship which was not  
pertinent.]

**3M**

21:31:14.6

21:31:15.2

yeah.

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

21:31:15.3 boy you shoulda seen– the way– I mean the whole # room was like  
21:31:41.8 "ohhh #– ohhh #" you know. I'll be the one that stencils 'em– well what do you # care you know? it's like how they said no cell phones on the gangway– everybody's raisin' hell it's like– "there's only three of us standin' gangway watchin'– it doesn't even affect you!" you know? that's when I realized it's like they live in this whole la la world– "nothing's gunna happen."

**3M**

21:31:41.9 that's right. I don't give a #– I'll bring stuff up. the last safety meeting I  
21:31:50.3 noticed nobody's puttin' the thing across the \* ladder.

**AB-3**

21:31:49.8 but it's the captain and the chief engineer sittin' there goin' rollin' their  
21:32:17.3 eyes and goin' "oh #". its like man– this is # \*. why do you even bother having these goddamn meetings you know. just sit there and play your yes man #.– tell you what though– after that # *Norfolk* [Reference to the *Alliance Norfolk*, a Ro-Ro cargo ship.] caught fire they we're all out there and checkin' their # man you know. [sound of chuckle]

**3M**

21:32:17.6 yeah # 'em you know. I mean you're gunna run into– into captains and  
21:32:54.0 mates and chiefs and # and you're gunna have leadership that's conscientious and– and is on to stuff like that– and you're gunna have guys that aren't. and if they're not (look I'm bein' honest) I'll call 'em out– I do it all the time (and you know) sometimes it gets me in trouble. \* should be our primary responsibility out here– is you know– making sure it's a safe ship. it's hard on here because there's so many # things to address– it's like where do you start you know? really it's– it's [sound of sigh]...

**M1/M2**

21:32:55.4 SUMMARIZED AREA  
21:34:58.0 [The 3M continued to speak about an example of a ladder that he felt should have been closed on the *El Faro*– but how he observed people still using the ladder despite precautions taken not to use the ladder. AB-3 talked about more safety examples specific to other ships and other crews not observing the safety precautions that were put in place. The 3M then talked about a situation where caution tape had been put up, but crew members walked by the caution tape.]

## Secondary and Electronic Communications

## Primary Communications

**ALL CHAN.**

21:34:58.0

22:37:17.0

[Area of non-pertinent conversation or no conversation.]

**M1/M2**

22:37:51.3

22:37:52.1

[sound similar to a sheet of paper being torn.]

**M1/M2**

22:37:54.5

22:37:55.0

[sound similar to sheet of paper being torn once more.]

**3M**

22:38:09.8

22:38:11.0

(the weather/hello).

**3M**

22:38:15.1

22:38:19.8

(I don't know) it's for the Pacific unfortunately.

**AB-3**

22:38:22.7

22:38:30.5

hurricane right off our– beam. (and) we're gettin' weather reports from #  
Guam.

**3M**

22:38:32.5

22:38:33.1

yeeep.

**3M**

22:38:35.8

22:38:46.5

(yeah I think that was a signal). what's next. wanna see if the uh– if the  
National Weather Service \* \*.

**3M**

22:38:56.3

22:39:00.8

wanna get off the bridge before all these books sittin' here start flyin' off  
the shelf.

## Secondary and Electronic Communications

**M1/M2**

22:37:17.0

22:37:28.0

[sound of SAT-C terminal receiving incoming  
message.]

**M1/M2**

22:37:28.4

22:37:48.7

[sound of SAT-C terminal printer printing.]



## Primary Communications

**AB-3**

22:39:01.1

yeah.

22:39:01.6

**3M**

22:39:02.3

there's just so many things.

22:39:03.9

**3M**

22:39:04.8

I was just walkin' up back the second deck this afternoon and just goin'— "oh man."

22:39:10.4

**AB-3**

22:39:10.1

yup.

22:39:10.6

**AB-3**

22:39:11.3

well @SA's got that mess all secured— there's not even a napkin (layin'/hangin') out there.

22:39:15.9

**3M**

22:39:24.0

yeah— we're gunna be in for a rough night.— as luck would have it— it's gunna fall right during our rest period I think.

22:39:33.2

**AB-3**

22:39:32.9

yeah.

22:39:33.4

**3M**

22:39:33.5

during the worst of it. \* \* restless night. but again— maybe I'm just bein' a...

22:39:40.1

**AB-3**

22:39:40.2

I looked around— made sure anything that rolled around— (might) wake me up— I got it all wedged in. put in a drawer or something. (making) clunking noises- and irritations.

22:39:55.6

**3M**

22:40:00.2

guess I'm just turnin' into a chicken little but— I have a feeling like something bad is gunna happen.

22:40:10.9

## Secondary and Electronic Communications

## Primary Communications

**3M**

22:40:50.1  
22:40:53.5

maybe nothing will happen. maybe it'll just be all nice.

**AB-3**

22:40:54.6  
22:40:57.8

yeah like that last one. we we're startin' to get a raindrop and...

**AB-3**

22:41:14.9  
22:41:17.6

those # can spin up so quickly. [reference to hurricanes]

**3M**

22:41:37.5  
22:41:54.0

the Weather Channel– they really goin' back on how this whole thing really– \* (these models) – and they think it's gunna happen and– a lot of it has to do with what's gunna happen with that high pressure that's over the east coast– that's gunna come down and steer it.

**AB-3**

22:41:54.1  
22:41:54.9

yeah.

**3M**

22:41:54.7  
22:42:02.4

upper– the upward– the steering winds. the upper level of air currents and- (that'll do it away).

**AB-3**

22:42:02.4  
22:42:07.7

ahh god for a meteorologist to have to explain that all to a layman must be like a city official must be–

**3M**

22:42:07.6  
22:42:08.2

yeah.

**AB-3**

22:42:09.3  
22:42:11.9

they just want yes or no answers and...

**3M**

22:42:11.6  
22:42:13.3

well ya know.

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

22:42:14.7

22:42:16.7

a million different variables.

**3M**

22:42:17.6

22:42:26.6

\* \* watchin' it on the Weather Channel is that– the Bahamas is always either covered by the banner at the bottom or whatever the # was on it you know...

**AB-3**

22:42:26.5

22:42:27.0

yeah.

**3M**

22:42:26.8

22:42:52.6

it's like the part– you know– cause nobody gives a # about what's happenin' down here too. (instead of/just got it) down here in the bottom– there's something over it and they don't get in close enough for you to try and figure out where exactly it's located where your trackline passes through it. but they never– they never really get into it. but they said– that– uh– Bahamas– they expect the Bahamas to really catch hell– for the next couple days.

**AB-3**

22:42:59.1

22:43:07.5

yeah if this thing stays out to sea– then if it hits the east coast with all that rain problems they're having right now– (that'll) really add to their woes.

**3M**

22:43:08.2

22:43:11.4

one guy– the co-founder of Weather Underground– whoever it was– he was talkin' to 'em– he says– "I'm thinkin'." he says his prediction is that uh– gunna drop twenty inches of rain– on an already saturated thing. he says that there's no doubt there's going to be serious flooding.

**ALL CHAN.**

22:43:11.4

22:53:24.5

[Area of non-pertinent conversation or no conversation.]

## Secondary and Electronic Communications

**M1/M2**

22:53:24.5

22:53:34.6

[sound of SAT-C terminal receiving incoming message.]

## Primary Communications

**3M**

22:53:27.0

22:53:29.4

alright– this should be the one. maybe.

**M1/M2**

22:54:18.6

22:54:19.1

[sound similar to paper being torn.]

**M1/M2**

22:56:16.7

22:56:48.5

[sound similar to NAVTEX receiving message.]

**M1/M2**

22:59:45.0

22:59:49.0

[sound similar to hourly GPS alarm activating.]

**M1/M2**

22:59:49.3

22:59:50.4

[sound of two quick electronic chimes similar to a keypad beep.]

## Secondary and Electronic Communications

**M1/M2**

22:53:35.1

22:54:15.5

[sound of SAT-C terminal printer printing.]

**3M-ET**

23:05:08.7

23:05:10.4

hey captain sorry to wake ya.

**3M-ET**

23:05:12.0

23:05:20.6

naw– nothin' and uh the latest weather just came in.– and umm– thought you might wanna take a look at it.

**3M-ET**

23:05:21.6

23:05:24.8

so– (yeah) if you have a chance.

**3M-ET**

23:05:26.5

23:05:37.7

just lookin' at the forecast and lookin' at our trackline. which way it's goin' and uhhh– thought you might wanna take a look at it.

## Primary Communications

**3M-ET**

23:05:43.1

23:06:43.4

**3M-ET**

23:07:01.7

23:07:02.3

**3M-ET**

23:07:05.1

23:07:05.9

**3M-ET**

23:07:07.2

23:07:07.6

**3M-ET**

23:07:10.4

23:07:11.1

**3M-ET**

23:07:17.5

23:07:17.8

**3M-ET**

23:07:18.3

23:07:19.5

## Secondary and Electronic Communications

uhh well it's– the– the– the current forecast has it  
uhh– max winds um a hundred miles– an hour. at  
the center.– umm and if I'm lookin' at this right–  
um– and it's moving at– at two-three-zero at uh  
five knots. so I assume it stays on that same–  
moves that same direction for say the next five  
hours. and uh so it's advancing toward our  
trackline– and uhh– puts us real close to it. umm  
you know like– I could be more specific– I could  
um– plot that out. but it's gunna be like real close  
(and). and uh– don't know. uh– uh I can give ya a  
better number and call ya back. we're lookin' a  
meet it at say like four o'clock in the morning. (you  
know).

okay.

yeah. yeah.

okay.

\* \* \*.

okay.

\* \* \*.

## Primary Communications

**ALL CHAN.**

23:07:19.5

23:13:36.0

[Area of non-pertinent conversation or no conversation.]

**ALL CHAN.**

23:14:19.5

23:20:53.5

[Area of non-pertinent conversation or no conversation.]

**M1/M2**

23:20:53.5

23:21:40.0

[sound of incoming NAVTEX message and NAVTEX machine printing.]

**ALL CHAN.**

23:21:40.0

23:26:03.6

[Area of non-pertinent conversation or no conversation.]

**3M**

23:26:03.6

23:26:09.9

well he seems to think that we'll be south of it by then— so the winds won't be an issue.

**AB-3**

23:26:11.7

23:26:12.7

two in the morning?

## Secondary and Electronic Communications

**3M-ET**

23:13:36.0

23:13:37.5

(okay) it's @3M again.

**3M-ET**

23:13:38.3

23:14:19.5

so— at oh—four hundred we'll be twenty-two miles from the center. with uh max one hundred with gusts to one-twenty and strengthening so— the option that we do have— umm from what I can see— is at oh-two hundred we could head south. and that would open it up some— so I mean of course I'd want you to verify what I'm seeing. I do understand you expect us not get into the quadrant dead ahead and (expose) us. just so you know that— that's how that's how close we'll be.— your welcome.

## Primary Communications

**3M**

23:26:14.0  
23:26:20.3

we'll– we'll be at– we'll be as close as we're gunna get according to the forecast for four– four-thirty.

**AB-3**

23:26:28.0  
23:26:30.1

and the windspeed now \* \*?\*

**3M**

23:26:30.6  
23:26:33.1

one hundred max– gusts to one ten.

**AB-3**

23:26:34.2  
23:26:34.7

#.

**AB-3**

23:26:36.1  
23:26:36.9

#.

**3M**

23:26:41.2  
23:26:46.0

it'll be at that strength according to the forecast– twenty miles from the center.

**AB-3**

23:26:46.6  
23:26:47.1

#.

**3M**

23:26:47.7  
23:26:55.0

what he's saying is "well– we'll be in the southwest quadrant. wind will be comin' from the north."— so.

**AB-3**

23:26:58.2  
23:26:59.9

Nantucket sleighride. [A term used in the whaling era that described the wild ride incurred by sailors immediately after harpooning a whale.]

**3M**

23:27:11.2  
23:27:17.9

I trust what he's saying– it's just being twenty miles away from hundred knot winds– this doesn't even sound right.

**AB-3**

23:27:18.0  
23:27:18.8

no.

## Secondary and Electronic Communications

## Primary Communications

**AB-3**

23:27:20.1  
23:27:24.1

(no matter) which way it's hittin' ya.— still hundred knot winds.

**AB-3**

23:27:35.7  
23:27:42.1

(I got a feelin') pooppy suit [immersion suit] and my life jacket.— laid out.

**AB-3**

23:27:54.9  
23:27:55.8

flashlight.

**AB-3**

23:28:11.3  
23:28:15.3

(it's good to) know that @SA and @CC will get the EPIRBs. [sound of laughter] man.

**3M**

23:28:17.6  
23:28:20.1

right. " \* \* up there." [3M was imitating someone.]

**ALL CHAN.**

23:28:20.1  
23:34:25.1

[Area of non-pertinent conversation or no conversation.]

**M1/M2**

23:34:25.1  
23:34:27.4

[sound of electric telephone ringing.]

**3M-ET**

23:34:29.3  
23:34:31.1

bridge. third mate.

**3M-ET**

23:34:33.3  
23:34:36.1

also eighty-four on the bridge. thank you.

**ALL CHAN.**

23:34:36.1  
23:40:57.0

[Area of non-pertinent conversation or no conversation.]

**3M**

23:40:57.0  
23:40:58.6

(this band...) rain.



## Primary Communications

### AB-3

23:40:59.1 (man) \* \* \* (sounds) \* (bridge) \* \*.  
23:41:02.4

### ALL CHAN.

23:41:02.4 [Area of non-pertinent conversation or no conversation.]  
23:44:17.5

### 3M

23:44:17.5 we don't have any options here. we got nowhere to go.  
23:44:20.6

### AB-3

23:44:21.2 \* \*.  
23:44:22.2

### 3M

23:44:22.0 \* think we do.  
23:44:23.1

### AB-3

23:44:22.9 Jesus man– don't tell me anymore. I don't even wanna hear it.  
23:44:26.9

### 3M

23:44:26.4 [sound of laughter] ohhh.  
23:44:29.4

### AB-3

23:44:33.3 "th th th th th these are ba ba ba ba ba ba big waaaves." [spoken as  
23:44:41.1 Elmer Fudd]. Jesus– it's a hurricane.

### 3M

23:44:45.1 yes. \* \* gunna ask the second \*.  
23:44:48.8

### AB-3

23:44:55.5 decision making night– uht oh.  
23:44:57.9

### 3M

23:45:16.8 good morning @2M.  
23:45:18.2

## Secondary and Electronic Communications

## Primary Communications

**2M**

23:45:18.1  
23:45:19.6

good morning.

**3M**

23:45:20.1  
23:45:20.6

welp...

**2M**

23:45:23.0  
23:45:26.4

gotcha on uhhh– one-five-zero.

**2M**

23:45:27.6  
23:45:28.0

(check).

**3M**

23:45:28.2  
23:45:30.9

you got no traffic– max R-P-M.

**2M**

23:45:31.0  
23:45:31.5

okay.

**3M**

23:45:33.0  
23:45:36.1

that's an island with a name I cannot pronounce.

**2M**

23:45:36.9  
23:45:37.2

[sound of chuckle]

**3M**

23:45:37.3  
23:45:43.7

that's a band of– clouds and rain. show ya what's goin' on back here in the chartroom.

**2M**

23:45:47.6  
23:45:48.8

(I) see shiny stuff.

**3M**

23:45:52.0  
23:45:54.2

okay. so.

## Secondary and Electronic Communications

## Primary Communications

**2M**

23:45:55.5

oh wow.

23:45:56.7

**3M**

23:45:56.8

this is our latest version of the course.

23:46:00.1

**3M**

23:46:01.7

then you have all this \* \* \*. I just \* \* \*.

23:46:12.7

**2M**

23:46:13.1

yeah it's probably \* \* ...

23:46:14.5

**3M**

23:46:14.7

so yeah. (but I didn't wanna) so anyway– it goes through here \* \* \*. so that's in there.

23:46:23.4

**2M**

23:46:24.1

okay.

23:46:24.8

**3M**

23:46:26.1

so what you see is that uh it's thrity-two miles– to the next waypoint...

23:46:32.4

**2M**

23:46:30.7

next point.

23:46:31.3

**3M**

23:46:32.1

...right on track.

23:46:33.5

**2M**

23:46:33.1

mhmm.

23:46:33.8

**3M**

23:46:34.8

umm.

23:46:35.5

## Secondary and Electronic Communications

## Primary Communications

**3M**

23:46:37.6 (\*) the weather report that came in at twenty-three hundred. \*\* (to the)  
23:46:45.7 captain \*\*\*.

**2M**

23:46:44.8 \* \* .  
23:46:46.0

**3M**

23:46:46.1 (it's/he's) (not).  
23:46:47.3

**2M**

23:46:47.6 (okay). \* \* \* .  
23:46:50.6

**3M**

23:46:50.8 \* \* \* so this is umm thirteen.  
23:46:54.5

**2M**

23:46:54.3 this is totally \* [breaks into uncontrollable laughter] we would have been  
23:47:02.2 better off staying on our old trackline.

**3M**

23:47:02.0 well. so.  
23:47:03.4

**2M**

23:47:03.4 [sound of laughter]  
23:47:05.5

**3M**

23:47:05.6 I (win- sorry).  
23:47:06.8

**2M**

23:47:06.7 [sound of laugh]  
23:47:07.7

**2M**

23:47:09.8 [sound of sigh]  
23:47:10.5

## Secondary and Electronic Communications

## Primary Communications

**3M**

23:47:10.4 so it's um– twenty-three forty (right here)– seventy three point six. west.  
23:47:24.4 there it is. okay? at the present speed (it will be/put it) south of us.

**2M**

23:47:24.5 to the south. okay.  
23:47:25.8

**3M**

23:47:25.7 at two-three-zero. \* \* \*  
23:47:33.4

**2M**

23:47:33.5 \* so big of a difference.  
23:47:34.8

**3M**

23:47:34.7 it's not gunna make that big of a difference. \* for some reason I don't  
23:47:48.1 know where I got (two-three-zero). \* \* \* . anyway– (that'll be) slightly  
different.

**2M**

23:47:50.0 yeah. \* so...  
23:47:51.9

**3M**

23:47:51.9 but either way– here's– here's what happens– here– here you are at  
23:48:08.4 zero-four hundred. alright so this is twenty-five miles. five hours. so \* \*  
\* . \* (nineteen) \* a hundred. so that's...

**2M**

23:48:08.4 so you think that's gunna happen at two \* \* ?  
23:48:10.7

**3M**

23:48:10.5 (that's what I just said).  
23:48:11.4

**2M**

23:48:11.4 \* \* about two hours.  
23:48:13.3

## Secondary and Electronic Communications

## Primary Communications

**3M**

23:48:12.6

23:48:20.5

... the eye. so this so this more important to me although at two-three-zero

**2M**

23:48:20.7

23:48:23.0

\* \* \*

**3M**

23:48:23.8

23:48:26.5

[sound of sigh] \* \* \*

**AB-2**

23:48:24.3

23:48:25.2

what's up?

**2M**

23:48:26.6

23:48:37.6

at uhh dinner relief– it was the same thing. we're uh two o'clock in the morning– \* \* \*.

**AB-2**

23:48:26.9

23:48:27.5

three?

**AB-2**

23:48:29.5

23:48:30.5

four?

**AB-3**

23:48:30.8

23:48:31.5

(watch) \*.

## Secondary and Electronic Communications

**AB-2**

23:48:13.0

23:48:14.6

hey it's where the party's at.

**AB-3**

23:48:14.9

23:48:17.6

nooo– it's gunna be a party in a few hours.

**AB-2**

23:48:19.2

23:48:21.4

I know– I just seen a little T-V.

## Primary Communications

**AB-2**

23:48:32.4

huh?

23:48:32.9

**AB-3**

23:48:33.8

(no) and it's not far away from us either.

23:48:36.3

**3M**

23:48:38.0

so (this is your/steer) two-three-zero. \* \* (center) \* \* \*. so it's very little different so actually it's gonna be much \* \* \*. either way– if the forecast holds \* \* that's what we have at oh-four hundred \* \* \*. \* \* \*. \* \* two-three-zero \* \* \*. so anyway \* (miles from it)\* \* \*. at oh-four hundred– you're– you're twenty-five miles away from the center– and still goin' toward it. you're– you're still diverging \* \* \*. \* \* \* zero-four to zero-five– instead of– (you know) that's– so that's where you are \* \*. (zero) at the center \* \* (average) \* \* (knots) \* \*. okay?

23:49:54.4

## Secondary and Electronic Communications

**AB-2**

23:48:38.1

\* \* the T-V just went out.

23:48:40.4

**AB-3**

23:48:40.7

yeah.

23:48:41.3

**AB-2**

23:48:42.7

yeah \* \*.

23:48:43.7

**AB-2**

23:48:48.5

we right fixin' to be right in the middle of the st...

23:48:50.7

**AB-3**

23:48:50.3

\* gettin' my flashlight \*– life saver– my gumby suit [immersion suit] out.– I took all those cokes and water bottles and put 'em in the cabinet– (down) um– the coffee cabinet over there. probably gonna start throwin' # around here.

23:49:06.2

## Primary Communications

**AB-3**

23:49:07.8

23:49:13.8

**AB-2**

23:49:11.3

23:49:12.3

**AB-2**

23:49:14.5

23:49:21.0

**AB-3**

23:49:21.1

23:49:23.5

**AB-2**

23:49:23.4

23:49:24.3

**AB-3**

23:49:25.8

23:49:26.8

**AB-2**

23:49:28.2

23:49:34.2

**AB-3**

23:49:34.5

23:49:35.7

**AB-2**

23:49:36.2

23:49:39.0

**AB-2**

23:49:41.4

23:49:42.1

**AB-2**

23:49:44.7

23:49:46.2

## Secondary and Electronic Communications

(gunna drink the water) \* they aren't careful– get sucked in to it.

yeahhh.

I got my T-V up here– it ain't tied down or nothin'– but I got a feelin' it's gunna bite the dust.

man I got everything put away in my room.

(sure).

wanna go down and get it?

I don't know. if I can unplug it– set it on the ground– I don't know if that'll do any good or not.

slidin'.

no I got that big ol' rubber rug in there.

uhh (I don't know).

I woke up too late.



**Primary Communications**

**3M**

23:49:54.5  
23:49:59.4

so you're comin' around toward the center– (well yeah) you get into the eye of it.

**2M**

23:49:59.6  
23:50:15.1

well– I don't know about all that. so here's the thing– that says (like only) \* \* that says (fifty-one/fifty-four/ -or)– this says maximum sustained winds of a hundred knots– gusts to one-(twenty/forty).

**2M**

23:50:19.4  
23:50:22.7

yeah the whole thing (showing strengthening/\* \* ).

**Secondary and Electronic Communications**

**AB-3**

23:49:49.1  
23:49:50.8

\* \* \* .

**AB-2**

23:49:51.1  
23:49:51.5

huh?

**AB-3**

23:49:52.1  
23:49:55.8

\* \* \* captain \* \* \* . [spoken softly]

**AB-3**

23:49:59.3  
23:50:03.2

we're gettin' pretty # close to \* \* .

**AB-2**

23:50:07.3  
23:50:08.4

\* \* \* .

**AB-?**

23:50:15.9  
23:50:17.6

\* \* .

**AB-2**

23:50:20.5  
23:50:22.0

crazy.

## Primary Communications

**3M**

23:50:23.9  
23:50:48.7

alright. so. \* \* \* (north) east (winds were there/\* \* \*) \* \* \* (any other options/\* \* \*). \* \* \* oh-two hundred you could– head south. (it said/instead) \* (knots). \* \* \*...

**2M**

23:50:48.6  
23:50:49.6

(oh is that the)...

## Secondary and Electronic Communications

**AB-3**

23:50:22.1  
23:50:27.1

I know it was (four) \* \*. isn't that somethin'?

**AB-3**

23:50:33.1  
23:50:34.4

what'd you say?

**AB-3**

23:50:34.8  
23:50:37.0

get your # together down there.

**AB-3**

23:50:39.1  
23:50:41.1

do you know where your EPIRB is?

**AB-3**

23:50:41.6  
23:50:44.4

wish I had one like uh @A3M had one. one of those little pocket ones.

**AB-2**

23:50:45.2  
23:50:45.7

yeah.

**AB-3**

23:50:45.7  
23:50:48.7

"here I am! save me!"

**AB-2**

23:50:48.8  
23:50:50.3

ain't got no EPIRB.

## Primary Communications

**3M**

23:50:49.3  
23:50:51.0

(head to the) north.

**2M**

23:50:50.9  
23:50:56.8

(I know. so) this is the second time we changed our route and it (just) keeps comin' for us.

**3M**

23:51:00.2  
23:51:10.9

\* \* \*. \* \* \* (solid).

**2M**

23:51:10.8  
23:51:11.9

yeah I (trust her/\* \* ).

## Secondary and Electronic Communications

**AB-3**

23:50:52.2  
23:50:54.5

yeah one of those little pocket ones \*.

**AB-2**

23:50:54.9  
23:50:57.3

(well it's cause)– he's on a sailboat.

**AB-3**

23:50:57.3  
23:50:57.7

yeah.

**AB-2**

23:51:00.4  
23:51:05.5

so uhh– those just clouds?

**AB-3**

23:51:05.8  
23:51:08.0

that's probably the outer bounds of it right now.

**AB-2**

23:51:09.8  
23:51:10.7

ohhh uhhh...

**AB-3**

23:51:10.3  
23:51:11.5

smooth sailin'

## Primary Communications

**3M**

23:51:13.0  
23:51:22.7

\* \* \*.

**3M**

23:51:25.0  
23:51:27.4

\* \* \* (R-P-M). \* \* \*.

**2M**

23:51:27.8  
23:51:30.3

(if we) were on our (original) course line.

**3M**

23:51:30.5  
23:51:33.2

well \* \* \*.

**2M**

23:51:33.3  
23:51:35.9

\* \* (could of/put us) our here.

## Secondary and Electronic Communications

**AB-2**

23:51:13.0  
23:51:18.8

supposed to be a hundred and fifteen– with gusts up to a hundred and forty-five.

**AB-3**

23:51:18.7  
23:51:20.0

make it to Jacksonville.

**AB-2**

23:51:20.2  
23:51:20.6

huh?

**AB-3**

23:51:21.3  
23:51:22.8

place to be man– not here.

**AB-3**

23:51:24.2  
23:51:25.5

\* \* \*.

**AB-3**

23:51:27.0  
23:51:32.4

well anyway– we're the only idiots out here. one-five-zero.

## Primary Communications

**3M**

23:51:36.0  
23:51:37.6

uhh-- (this is a)...

**2M**

23:51:37.2  
23:51:38.6

either way it's...

**3M**

23:51:38.6  
23:51:40.6

(captain's) saying it's better to be on the south side.

**2M**

23:51:40.5  
23:51:41.2

yeah.

**3M**

23:51:41.2  
23:51:44.4

you're not in the dangerous-- semicircle.

**3M**

23:51:46.7  
23:51:55.4

\* \* \* (the eye) \* \* \*.

## Secondary and Electronic Communications

**AB-2**

23:51:34.9  
23:51:37.3

ohhh this a bad deal.

**AB-3**

23:51:37.8  
23:51:39.2

startin' already.

**AB-2**

23:51:39.5  
23:51:42.5

I can see it. you can you can feel it up here.

**AB-3**

23:51:43.1  
23:51:43.5

yup.

**AB-2**

23:51:44.9  
23:51:52.1

down there-- different.-- ahh-- what is it? one-four-five?

**Primary Communications**

**3M**  
23:52:00.7  
23:52:08.1

\* \* \*

**2M**  
23:52:08.1  
23:52:09.8

I'd be more...

**2M**  
23:52:12.6  
23:52:19.4

...umm– I'm more concerned about comin' through here \* \* (nice straight track) \* \*.

**3M**  
23:52:19.1  
23:52:20.7

\* \* \*

**2M**  
23:52:21.0  
23:52:21.8

\* \*.

**Secondary and Electronic Communications**

**AB-3**  
23:51:52.3  
23:51:53.2

one-five-zero.

**AB-2**  
23:51:53.7  
23:51:54.7

\* \* \*.

**AB-2**  
23:51:56.2  
23:51:56.9

come way over.

**AB-?**  
23:51:57.5  
23:51:59.2

yeah \* \* \*.

**AB-3**  
23:52:08.6  
23:52:09.5

one-five-zero. [spoken to 3M]

**3M**  
23:52:10.5  
23:52:12.3

good. thank you. goodnight. [spoken to AB-3]

**Primary Communications**

**Secondary and Electronic Communications**

**3M**

23:52:23.4  
23:52:26.7

\* \* \*.

**2M**

23:52:26.6  
23:52:27.1

no.

**3M**

23:52:27.3  
23:52:31.0

\* \* \*.

**2M**

23:52:30.7  
23:52:31.9

(just ask)...

**3M**

23:52:32.1  
23:52:46.9

\* \* \* a hundred and twenty fathoms. \* \* \*.

**3M**

23:52:48.4  
23:53:03.2

well all the other weather reports (except) the SAT-C (weather) \* \*  
(northerly/more and more) severe. \* \* but \* \* \*. \* \* \*.

**2M**

23:53:03.2  
23:53:05.3

\* \* \* (out matched/not matched).

**3M/2M**

23:53:05.9  
23:53:06.9

\* \*. [spoken simultaneously]

**3M**

23:53:06.6  
23:53:08.0

\* (the swell).

**2M**

23:53:08.0  
23:53:08.5

oh it did?

**3M**

23:53:08.4  
23:53:09.1

yup.

## Primary Communications

**2M**

23:53:08.9  
23:53:13.2

earlier– what we're you saying about this (one/umm)?

**3M**

23:53:12.7  
23:53:19.3

\* \* \* .

**2M**

23:53:19.4  
23:53:20.5

oh okay.

**3M**

23:53:22.4  
23:53:25.0

\* \* \* .

**2M**

23:53:25.1  
23:53:28.3

it's not right now (so). umm...

**3M**

23:53:28.4  
23:53:29.1

\* \* \* .

**2M**

23:53:29.0  
23:53:31.0

oh \* \* \* .

**3M**

23:53:31.1  
23:53:39.0

\* \* \* (weather/waypoint) \* \* \* . if you open it up \* \* \* .

**2M**

23:53:39.0  
23:53:41.1

\* \* \* (should be/seem to be) going...

**3M**

23:53:41.0  
23:53:43.8

right. so \* \* \* (keep it/should be) astern.

**3M**

23:53:45.9  
23:53:52.6

\* \* \* when things– when things start getting crazy \* \* \* I'm not tellin' you  
to–

## Secondary and Electronic Communications



## Primary Communications

**2M**

23:53:52.6 no- no- no- uh- it's- yeah. it's just like you're saying- it just occurred  
23:54:00.8 to me that- yeah- it's (turning/churning).

**3M**

23:54:00.9 I mean even if...  
23:54:01.8

**2M**

23:54:02.0 yeah.  
23:54:02.9

**3M**

23:54:02.9 ... \* \* \* just understand- the- you know- the set \* \* \*, \* \* \*.  
23:54:16.4

**3M**

23:54:19.9 either that or just \* \* \*.  
23:54:22.8

**2M**

23:54:23.2 \* \* \*.  
23:54:25.0

**3M**

23:54:25.2 \* \* \*.  
23:54:28.7

**2M**

23:54:29.1 \* \* \* best (chance/change) to \* \* \*.  
23:54:31.7

**3M**

23:54:31.6 (assuming) \* \* (all this and B-V-S) \*...  
23:54:34.2

**2M**

23:54:34.6 sound and catch the Old Bahama Channel here. we've got umm- he's  
23:54:45.0 not gunna like this. comin' through here

**3M**

23:54:45.5 mhmm.  
23:54:46.3

## Secondary and Electronic Communications

## Primary Communications

**2M**

23:54:46.1 (where its all) \* \* \*. I think we should (do/put) it in choppy. and this is a  
23:54:59.5 mess (over) two \* islands– it's just now with that nasty swell. come cut  
through here.

**3M**

23:54:59.1 yeah it's usually not much narrower than this. \* \* \*. maybe we can then  
23:55:14.3 just come down and then do that. I– I don't know. \* \* \*. I mean. it's not  
(my)– it's not (like) this (come out) through here.

**2M**

23:55:14.3 na– yeah.  
23:55:14.8

**3M**

23:55:15.6 \* \* \* (I can't tell if it's) \* \* \*.  
23:55:17.6

**2M**

23:55:18.2 this– I don't– I would feel more comfortable running this.  
23:55:21.8

**3M**

23:55:22.0 well (you can/even)..  
23:55:22.8

**2M**

23:55:22.4 ...Bahama Channel \* \* \* ...  
23:55:23.7

**2M**

23:55:24.4 ...in a short time.  
23:55:25.7

**3M**

23:55:26.1 \* \* \* .  
23:55:29.7

**2M**

23:55:31.8 and also \* \* \* I was just wondering \* \* \* (course you know) . \* \* \* .  
23:55:49.5

## Secondary and Electronic Communications

## Primary Communications

**3M**

23:55:49.7  
23:55:55.2

I guess I'll go look at the Bahama Channel charts. that would be the only thing we've got (I think) (that's close to it/with that I can still start).

**3M**

23:55:58.3  
23:56:14.7

\* \* \* I was gunna say this is pretty useless. \* \* \* (island/I would). \* \* \* .  
this is uh- \* \*- that's a- that's almost a twenty mile gap.

**2M**

23:56:14.7  
23:56:15.2

yeah.

**3M**

23:56:15.4  
23:56:30.3

it's uh-hh- nineteen miles. nineteen miles here and it's nineteen miles here- so it's not like you can stay- alright- you move nine miles off \* \* (land) and still be okay over here.

**2M**

23:56:38.4  
23:56:51.1

at this rate it's almost like- you know- (let's) plow through it and get out of here. \* like \* \* \*- \* \* \*.

**3M**

23:56:52.3  
23:56:55.2

you know it's eventually gunna turn north- but...

**2M**

23:56:55.1  
23:56:56.9

[sound of laughter] supposed to turn north.

**3M**

23:56:56.8  
23:57:03.2

...(in the meantime)- that's what I was hearin' earlier on the Weather Channel they we're talkin' about the strength of it.

**2M**

23:57:03.4  
23:57:04.6

[sound of sneeze].

**3M**

23:57:04.4  
23:57:27.7

what's concerning me is that the umm- is that- the information we're getting from other sources is so much different from this. \* \*. the information we've got here also \* \* (wants to intense) \* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**3M**

23:57:31.3 so @AB-2.  
23:57:32.3

**?**

23:57:36.0 \* \* \* .  
23:57:37.3

**2M**

23:57:37.8 \* \* .  
23:57:38.8

**3M**

23:57:39.2 \* \* \* (tie up)– have a last smoke.  
23:57:43.2

**AB-2**

23:57:44.7 blowin' now like hell.  
23:57:46.5

**3M**

23:57:46.4 ahhh here comes that line.  
23:57:47.9

**AB-2**

23:57:48.3 (there it is). \* \* \* .  
23:57:52.5

**3M**

23:57:52.8 it's gotta be better– gotta be better on this side.  
23:57:56.0

**AB-2**

23:57:59.7 (gotta) open the door \* get ya.  
23:58:02.0

**AB-2**

23:58:05.9 storm's movin' at nine miles an hour might as well be six.  
23:58:10.7

**3M**

23:58:11.6 yeah (ours is) five. (you can get)– pretty close to it.  
23:58:15.1

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

23:58:15.5 says uhh– says it just sittin' out here suckin' up the heat outta this outta  
23:58:22.2 these waters.

**3M**

23:58:25.6 (I just slept) \*.  
23:58:28.1

**3M**

23:58:30.3 we woulda been within twenty-five miles of it– gunna dodge down to  
23:58:46.3 port.– forecast holds up be about twenty miles– just southwest of it.  
(center) \* \* \*.

**AB-2**

23:58:50.4 why don't we slow down? (this game is stupid/\* \* \*).  
23:58:53.7

**AB-2**

23:59:03.5 \* \* a hundred and (fifteen/fifty) you got a lot of (waves/rain).  
23:59:07.1

**AB-2**

23:59:10.5 hundred and forty five.  
23:59:12.3

**AB-2**

23:59:16.6 (guess/this) T-V went out.  
23:59:18.5

**AB-2**

23:59:21.3 so \* \* \*.  
23:59:23.2

**AB-2**

23:59:24.6 (it's all good if you can see through it.)  
23:59:26.3

**AB-2**

23:59:27.4 yeah– use that \* \*.  
23:59:29.4

## Secondary and Electronic Communications

## Primary Communications

**3M**

23:59:30.7  
23:59:34.4

\* \* \* go down there– \* \* \*.

**AB-2**

23:59:34.4  
23:59:41.8

\* \* \* fit to be out \* \* \*. \* \* \* (normally the) chief engineer.

**AB-2**

23:59:53.3  
23:59:54.8

yeah it does.

**AB-2**

23:59:57.0  
23:59:59.3

already up here.

**ALL CHAN.**

23:59:59.3  
00:01:03.8

[Area of non-pertinent conversation or no conversation.]

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**3M**

00:01:03.8  
00:01:08.6

alright. goodnight ya'll.

**2M**

00:01:06.2  
00:01:06.9

alright goodnight.

**AB-2**

00:01:06.7  
00:01:08.3

update the \*.

**M1/M2**

00:01:08.5  
00:01:09.0

[sound similar to bridge door closing.]

**2M**

00:01:08.8  
00:01:11.6

just need a new logbook.

## Primary Communications

**2M**

00:01:16.0 visibility's not good \*\* just a few miles...rain. shallow water.  
00:01:25.4

**AB-2**

00:01:25.0 really...I don't like that part.  
00:01:29.8

**2M**

00:01:29.3 I don't either.  
00:01:30.6

**AB-2**

00:01:30.6 \* \*.  
00:01:33.0

**ALL CHAN.**

00:01:33.0 [Area of non-pertinent conversation or no conversation.]  
00:19:43.4

**2M**

00:19:43.4 we don't \*\* have much \*\*. much space to go.  
00:19:47.8

**AB-2**

00:19:46.0 \*.  
00:19:46.8

**2M**

00:19:49.9 not much wiggle room you know 'cause it's so shallow everywhere.  
00:19:53.7

**AB-2**

00:19:54.2 I don't like our chances.  
00:19:56.8

**2M**

00:19:56.6 well right now on this course we're fine. it's if we go south. try and get  
00:20:28.8 away from it. and I was looking at it. we can try to connect with the Old  
Bahama Channel if we I don't know one thirty (just/so) go due south.  
that's— that's where we get into where it's kinda shallow and there is no  
wiggle room. well there's a little bit we'll just have to see \* it.

## Secondary and Electronic Communications

## Primary Communications

**ALL CHAN.**

00:20:28.8

00:26:00.0

[Area of non-pertinent conversation or no conversation.]

**ALL CHAN.**

00:27:35.6

00:40:53.1

[Area of non-pertinent conversation or no conversation.]

**M1**

00:40:53.1

00:40:54.4

[sound similar to paper being torn.]

**2M**

00:40:59.8

00:41:02.2

I may have a solution.

**AB-2**

00:41:02.0

00:41:06.8

[sound of laughter] what's that?

**2M**

00:41:08.1

00:41:47.3

well we wouldn't– we wouldn't have to worry about it until two o'clock. our tentative position– our D-R for zero two hundred gets us in a good angle– in a good spot that we can alter course south to one eight six and that course line if we stay on that keeps us five miles away from any kind of shallow area which is enough room. (not a lot of/so) wiggle room but right now where we're going we don't have much wiggle room right now. we got land on either side of us. well coming up to either side of us.

**AB-2**

00:41:48.0

00:41:51.7

you got– somebody got a waypoint on this radar over here?

## Secondary and Electronic Communications

**M1**

00:26:00.0

00:26:15.8

[sound similar to SAT-C terminal receiving incoming message.]

**M1**

00:26:20.7

00:27:35.6

[sound similar to SAT-C terminal printer printing.]



## Primary Communications

**2M**

00:41:52.1 for whatever reason the radars aren't picking up the new route.  
00:41:58.3

**AB-2**

00:41:59.6 this one's got a waypoint over here or something.  
00:42:03.6

**2M**

00:42:03.1 that one does?  
00:42:05.5

**AB-2**

00:42:05.7 twelve miles. just kinda (in that/ended).  
00:42:12.1

**2M**

00:42:11.9 \* \* there are no- (there's/seriously)- #. oh this one? yeah. this one's  
00:42:49.7 receiving the info. so this is between land right here. this waypoint. then  
we cut across- we stay on that for another half hour or so until two  
o'clock and then just head straight south. and then we'll have a couple  
more - couple more course changes. one eight six come over get to uh  
anyway-.

**AB-2**

00:42:51.2 one eight six. will put wind 'bout dead on our ass like.  
00:42:55.1

**2M**

00:42:54.9 and we could be gettin' away from it. going south getting away from it  
00:43:13.0 and then from there we connect with the um Old Bahama Channel. we  
have one more waypoint course one oh one and that- bloop- go right  
into the Old Bahama Channel. right in to San Juan.

**AB-2**

00:43:22.9 #.  
00:43:23.7

**2M**

00:43:23.9 unless this cour- unless this damn storm goes further south. \* can't  
00:43:37.6 win. every time we come further south the storm keeps trying to follow  
us.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

00:43:43.9  
00:43:54.3

\* it ain't gonna do nothing but sit down here (throwing/growing) up.  
keeps getting stronger and stronger.

**2M**

00:43:53.7  
00:44:52.0

if we come right down right over to here so continue to next waypoint  
one eight six two o'clock straight down through here five miles from this  
point come down here \* we'll pick up this (light/line) one oh one then  
we're out of here. \* \* right now we're about here and the storm is here  
so we come down here to this one.

**AB-2**

00:44:53.8  
00:45:00.6

\* \*

**2M**

00:45:01.9  
00:45:17.7

\* \* this is zero six hundred now it moves up to four. and we're up here  
headed right toward it. now we're gonna hit it at four oh clock in the  
morning.

**AB-2**

00:45:24.2  
00:45:28.5

what he's thinking?

**2M**

00:45:28.2  
00:45:31.9

@3M told him the latest (weather report was here/heading of the  
storm/news about the storm).

**ALL CHAN.**

00:45:31.9  
00:48:07.5

[Area of non-pertinent conversation or no conversation.]

**AB-2**

00:48:07.5  
00:48:11.8

@AB-3 said he had his survival suit ready to go.

**2M**

00:48:12.0  
00:48:13.8

[sound of chuckle]

**AB-2**

00:48:39.0  
00:48:44.8

hope it don't get to that point.

## Secondary and Electronic Communications

## Primary Communications

**2M**

00:48:44.2  
00:48:46.0

\* \* small (coffee containers) \* \* .

**AB-2**

00:48:47.0  
00:49:05.9

I don't know but I don't (that) \* \* \* coffee– too much coffee (is always)– that's just the size that they are. \* \* (them). \* used to (be) as big as \* \* \* .

**2M**

00:49:06.5  
00:49:16.3

some of them are big and some of them are small. \* \* \* .

**M1/M2**

00:49:14.5  
00:49:23.8

[sound similar to coffee grinder.]

**AB-2**

00:49:21.5  
00:49:24.9

with this guy anything's possible. [It is not clear if AB-2 is referencing the coffee maker, the CAPT or the ship's steward].

**2M**

00:49:25.8  
00:49:26.4

yeah.

**ALL CHAN.**

00:49:26.4  
00:52:06.6

[Area of non-pertinent conversation or no conversation.]

**AB-2**

00:52:06.6  
00:52:11.9

it's an eerie feeling I'll tell you.

**2M**

00:52:13.8  
00:52:23.3

it doesn't really feel like we're going in– near a hurricane. I mean like you said the wind– when you go outside and there's hardly any wind.

**AB-2**

00:52:22.3  
00:52:23.7

right.

**2M**

00:52:22.9  
00:52:35.2

relative wind is– you know we're going twenty knots so you wouldn't feel it much. we're not– not rolling.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

00:52:33.5  
00:52:42.7

I know. I know sooner or later we'll be rolling. something's going to happen.

**2M**

00:52:48.2  
00:52:55.4

the ship is gonna be taking just— you know these kind of storms— these kind of seas in Alaska.

**AB-2**

00:52:55.7  
00:52:56.2

yeah.

**M1**

00:53:10.2  
00:53:47.5

[sound of incoming NAVTEX and NAVTEX printer printing.]

**AB-2**

00:53:12.6  
00:53:14.4

find out (soon enough).

**AB-2**

00:53:16.5  
00:53:18.6

\* \* \*.

**AB-2**

00:54:03.4  
00:54:06.5

(yeah) they said this storm could grow to a four.

**2M**

00:54:07.4  
00:54:08.5

at what point?

**AB-2**

00:54:10.5  
00:54:13.3

\* \* sittin' (down/out) here gettin' stronger and stronger.

**AB-2**

00:54:18.8  
00:54:20.5

suckin' up the hot water.

**2M**

00:54:28.9  
00:54:32.3

yeah \* the ocean's been really warm.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

00:54:32.3 they said it's just perfect— for gaining strength. just slowed down. movin'  
00:54:50.5 (nine) miles an hour (just sittin'/now it's six). — likes it where it's at.

**2M**

00:54:56.5 I have nooo doubt (we should) \* \* \* nice warm and wet.  
00:55:03.5

**ALL CHAN.**

00:55:03.5 [Area of non-pertinent conversation or no conversation.]  
00:58:55.2

**AB-2**

00:58:55.2 sure we gunna change course at two o'clock?  
00:58:57.3

**2M**

00:58:58.0 I don't know. gosh. I might call the captain here shortly if he doesn't  
00:59:07.4 come up.— see if he can.

**AB-2**

00:59:12.9 be up here.  
00:59:15.0

**2M**

00:59:15.5 I do too.  
00:59:16.3

**2M**

00:59:24.4 I don't know if he can sleep knowing all of this.  
00:59:28.3

**ALL CHAN.**

00:59:28.3 [Area of non-pertinent conversation or no conversation.]  
01:03:14.8

**AB-2**

01:03:14.8 is that land off our port side?  
01:03:17.5

**2M**

01:03:18.0 yes.— and starboard.  
01:03:21.0

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

01:03:23.9 (great).  
01:03:25.2

**2M**

01:03:25.3 [sound of laugh]  
01:03:26.0

**ALL CHAN.**

01:03:26.0 [Area of non-pertinent conversation or no conversation.]  
01:04:20.1

**2M**

01:04:20.1 \* slept pretty good last night up until nine o'clock. [The first portion of  
01:04:23.6 the sentence was spoken through a yawning sound.]

**2M**

01:04:25.9 I guess that's when my Zzzquil [over the counter sleep aid] wears out.  
01:04:31.6 it's just like "bing!" I'm awake. [sound of chuckle]

**AB-2**

01:04:31.3 (huh).  
01:04:32.1

**AB-2**

01:04:36.1 I laid down about six o'clock.  
01:04:38.5

**2M**

01:04:38.6 yup.  
01:04:39.2

**2M**

01:04:41.0 they were. [At the same moment AB-2 spoke unintelligibly.]  
01:04:41.5

**2M**

01:04:42.1 they were doin' that work and bangin' around.  
01:04:44.4

**AB-2**

01:04:44.4 yeah.  
01:04:45.2

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:04:45.1  
01:04:47.5

so I put in my earplugs.

**2M**

01:04:48.9  
01:04:55.8

and I fell asleep. and I think it was nine o'clock when I woke up and took the ear plugs out– I'm like "wow– I don't need those anymore."

**AB-2**

01:04:58.0  
01:04:58.6

(yeah/jeez).

**2M**

01:04:58.6  
01:05:00.1

tossed and turned for a little bit and fall back to sleep.

**AB-2**

01:05:01.1  
01:05:03.4

get away from that– that \* banging.

**2M**

01:05:07.9  
01:05:21.0

well I wasn't awake for that.– nope. ear plugs– Zzzquil. That Zzzquil knocks me out. I love it.– it's just when it wears out– I wake up.

**2M**

01:05:30.2  
01:05:35.1

(I think also)– (were) rolling or pitching a little bit more. [Spoken during the sound of a yawn]

**2M**

01:05:37.3  
01:05:39.4

and that kinda shook me awake.

**ALL CHAN.**

01:05:39.4  
01:06:57.4

[Area of non-pertinent conversation or no conversation.]

**AB-2**

01:06:57.4  
01:07:00.3

guess we're the only vessel in this area.

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:07:00.4 [sound of laugh] yeah. all the other ships high tailed it away. [sound of  
01:07:17.2 laugh] (I'm like) "we'll get the # outta here." [spoken through a laugh.]  
[sound of laugh] it's just us. [spoken through a laugh] dotely dotely  
dum. [more laughter] had to go to Puerto Rico. let's go. ["let's go was  
sarcastically exclaimed.]

**AB-2**

01:07:20.1 just wondering if this is the right path.  
01:07:23.2

**2M**

01:07:24.6 nooope.  
01:07:24.9

**2M**

01:07:30.5 (yeah but) *El Yunque* went through it. they had to have.  
01:07:35.1

**2M**

01:07:49.8 so what were they sayin'? it was it was still a category one hurricane?  
01:07:53.7

**AB-2**

01:07:54.7 (no/now) it's up to uh— two— goin' to a three— to a four.  
01:08:03.2

**2M**

01:08:03.9 but presently it's at a two?  
01:08:05.7

**AB-2**

01:08:05.8 yeah.  
01:08:06.2

**2M**

01:08:08.4 I dunno— Fox News— I don't think...  
01:08:11.3

**AB-2**

01:08:10.4 hundred and fifteen miles an hour.  
01:08:12.1

## Secondary and Electronic Communications



## Primary Communications

**2M**

01:08:12.4  
01:08:13.9

...the Weather Channel.

**AB-2**

01:08:13.5  
01:08:20.4

they're say the- outer bands- with gusts up to a hundred and forty-five miles an hour.

**2M**

01:08:24.1  
01:08:25.2

I dunno.

**AB-2**

01:08:30.4  
01:08:33.7

I ain't seen no hundred and forty-five mile an hour winds yet.

**AB-2**

01:08:35.3  
01:08:37.0

but I think we gunna see it.

**2M**

01:08:44.2  
01:08:48.5

tryin' to see if we have (N-B-C/A-B-C).

**2M**

01:08:48.7  
01:08:50.7

we don't have the weather channel.

## Secondary and Electronic Communications

**SXM**

01:08:19.5  
01:08:24.8

[The satellite radio was heard playing loudly and then stopped- as if the channel was being changed or there was weather interference.]

**SXM**

01:08:38.2  
01:08:42.7

[The satellite radio began playing again and then stops, as if the channel was being changed or there was weather interference.]

**SXM**

01:08:50.8  
01:08:56.0

[The satellite radio began playing again without interruption.]

## Primary Communications

**AB-2**

01:08:54.6  
01:09:00.4

\* \* \* slow down the storm– startin' to grow pretty strong.

**2M**

01:09:00.8  
01:09:02.2

who's excited about it?

**AB-2**

01:09:02.1  
01:09:02.8

the weather man.

**2M**

01:09:02.8  
01:09:04.4

ohhh. [sound of laugh.]

**ALL CHAN.**

01:09:04.4  
01:10:25.3

[Area of non-pertinent conversation or no conversation.]

## Secondary and Electronic Communications

**SXM**

01:10:25.3  
01:11:14.8

[The satellite radio feed became louder. First a traffic report was heard for the vicinity of the Daytona Beach area. The radio was then turned up further and a forecast for the Mid-Atlantic region to the northeast was heard. The reporter stated, "from the Weather Channel." Hurricane Joaquin is mentioned but only it's impact to the Mid-Atlantic and northeast was spoken about briefly. The rest of the forecast focused on local weekend weather for an unspecified area. The report quickly ended and an advertisement began, the radio was turned down but remained on.]

**ALL CHAN.**

01:11:14.8  
01:13:12.4

[Area of non-pertinent conversation or no conversation.]

## Primary Communications

**2M**

01:13:49.1 they're still predicting– I was listening to the New York weather  
01:13:57.4 forecast, but they seem to still predic-predicting that Joaquin's gunna  
go up the northeast.

**AB-2**

01:14:02.2 \* \* weaken goin' to the northeast. but it's...  
01:14:05.2

**2M**

01:14:04.8 oh absolutely. it's cold up there.  
01:14:06.6

**AB-2**

01:14:06.7 winds (push it north).  
01:14:08.7

**2M**

01:14:09.9 weaken from what to what you know. it's sittin' at a category four.  
01:14:14.1

**2M**

01:14:15.3 it's got all that power.  
01:14:16.6

**AB-2**

01:14:21.8 that spin's startin' to pick up a little bit now.  
01:14:24.3

**AB-2**

01:14:43.1 (and this weather/and it's runnin'/and it's like) twenty-five degree course  
01:14:46.9 change.

## Secondary and Electronic Communications

**SXM**

01:13:12.4  
01:13:46.3

[The radio was turned up once again, a weather forecast "from the Weather Channel" was briefly spoken about by the reporter. The forecast was for the New York area only and discussed the hurricane's potential future impact on the New York area.]

## Primary Communications

**2M**

01:14:56.7 oh the one comin' up?  
01:14:58.2

**AB-2**

01:14:58.3 yeah.  
01:14:59.0

**2M**

01:14:59.3 yeah I think one-one-six is the next. yeah in a little bit.  
01:15:03.6

**AB-2**

01:15:03.6 that's gunna be goin' into it.  
01:15:05.4

**2M**

01:15:25.7 oh my god.  
01:15:26.8

**2M**

01:15:41.7 now it's a category three.  
01:15:43.2

## Secondary and Electronic Communications

**SXM**

01:15:15.4 [A news media audio banner was heard and  
01:15:23.6 satellite radio was turned louder.]

**SXM**

01:15:23.7 ...(Hurricane Joaquin's upgraded) (to/from) a  
01:15:26.4 category three storm...

**SXM**

01:15:26.5 ...the hurricane expected to pass near the  
01:15:38.2 Bahamas before heading toward the east coast of  
the United States. heavy rains likely to stretch from  
the Carolinas all the way to New England. the  
powerful storm may bring ten inches to some  
areas. [the broadcast then turned into political  
news and the radio was then heard at a lower  
volume.]

## Primary Communications

**AB-2**

01:15:43.7

\* \* that much.

01:15:45.5

**2M**

01:15:45.7

huh?

01:15:46.2

**AB-2**

01:15:46.5

I say it didn't really reveal much. but it's strong.

01:15:52.3

**AB-2**

01:15:54.4

went from a one to a two to a three. three (has brought us to) a hundred and thirty-five miles an hour? (from) a hundred and (fifteen)?

01:16:01.3

**2M**

01:16:01.3

\* \*.- \* (wind gusts) \* \* \*.

01:16:06.8

**AB-2**

01:16:18.1

it was a hundred and fifteen.

01:16:19.8

**2M**

01:16:19.7

(a hundred to a hundred and twenty/and I have it to a hundred and twenty).

01:16:22.1

**2M**

01:16:23.3

(still not saying/still not seeing)– we don't have an actual hurricane warning alarm (yet). \* \*.

01:16:32.5

**ALL CHAN.**

01:16:32.5

[Area of non-pertinent conversation or no conversation.]

01:18:23.5

**AB-2**

01:18:23.5

whoa.

01:18:24.1

**2M**

01:18:24.4

oh. okay.

01:18:25.4

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

01:18:26.0

01:18:29.3

\* \* \*. \* one roll we took.

**AB-2**

01:18:32.7

01:18:35.5

biggest one since I've been up here.

**2M**

01:18:36.1

01:18:40.5

we're right between the islands– sooo. wondering why we're rolling?

[sound of quiet laugh]

**AB-2**

01:18:42.4

01:18:45.2

this is fixin' to get interesting.

**2M**

01:18:46.6

01:18:49.7

(missstaaake). [prolonged sound of the word 'mistake.] yes.

**ALL CHAN.**

01:18:49.7

01:19:37.8

[Area of non-pertinent conversation or no conversation.]

**AB-2**

01:19:37.8

01:19:40.2

\* \* \*.

**2M**

01:19:41.5

01:19:43.7

nope. hurry up and get the hell outta here.

**AB-2**

01:19:45.2

01:19:50.0

can't pound your way through them waves– break the ship in half.

**2M**

01:19:51.2

01:19:57.4

(I know) we're gunna hurry and get outta it. that's what *El Yunque* did.

went full speed ahead.

**AB-2**

01:19:58.0

01:20:03.0

well I knooow what they did. but they– they knew they was gunna get

outta it.– we goin' in to it.

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:20:04.7 yeah.  
01:20:05.3

**AB-2**

01:20:05.1 that's a different story.  
01:20:06.2

**2M**

01:20:06.6 we get into it and out of it pretty quick.  
01:20:08.7

**2M**

01:20:09.8 that's the thing is that– I mean yeah we're goin' into it– but it's not  
01:20:15.9 gunna last long– we'll be out of it pretty quick.

**AB-2**

01:20:28.3 \* (the/got) pounding on this ship. (better/gotta) slow down.  
01:20:32.0

**2M**

01:20:32.8 I'm gunna give the captain a call and see if he wants to come up and  
01:20:36.9 (look at it) \* \*.

## Secondary and Electronic Communications

**2M-ET**

01:20:50.3 (uh) I just wanted \* \* \* (runs) south (of the) (island)  
01:21:54.2 \* \* \* (old Bahama/weather) channel \* \* \* we'll be  
meeting the storm. umm fox news just said it's up  
to category \* \* \*. yeah– yes (that's what I heard) \* \*  
\*. it isn't lookin' good right now .– right now my uh–  
trackline I have zero-two hundred– alter course  
straight south and then (we'll) \* go through all  
these \* shallow areas. umm (and the next) course  
change (will/gunna) be (through the Bahamas) and  
then (just gunna) turn \* \* \*.

**2M-ET**

01:21:58.8 okay.  
01:22:00.3

## Primary Communications

**2M**

01:22:19.5 he said to run it.  
01:22:21.0

**2M**

01:22:23.1 hooold on to your ass @AB-2. [spoken very loud and dramatically and  
01:22:27.5 then the sound of laughter.]

**AB-2**

01:22:27.2 he wants to change course to one-one-six?  
01:22:28.7

**2M**

01:22:28.0 nope. [sound of laughing.] oh no– that's– that's the original course. that  
01:22:38.6 umm– uhh @3M– planned out. that gets us in– into the storm at four  
o'clock in the morning.

**AB-2**

01:22:39.3 so– we're– gunna stay on this course?  
01:22:42.2

**2M**

01:22:43.5 with the course change. yeah– the one that you see on the radar.  
01:22:46.2

**AB-2**

01:22:46.1 uhh we (want to come to) one-one-six.  
01:22:48.7

**2M**

01:22:48.6 yeah. eventually.  
01:22:49.5

## Secondary and Electronic Communications

**2M-ET**

01:22:01.6 alright I'm gunna adjust course (that) @3M  
01:22:16.7 (had/planned) \* \* \*. he wants to (run) \* \* \*. \* \* \*. \* \*  
\* one-one-six.

**2M-ET**

01:22:17.2 okay. thank you.  
01:22:18.2



## Primary Communications

**2M**

01:22:50.6 about another twenty minutes– I think that's the waypoint. looks like it.  
01:22:54.8

**2M**

01:23:00.2 \* \* \* turn the radar. I see only one working.  
01:23:05.7

**2M**

01:23:10.2 yep it is working.  
01:23:12.2

**2M**

01:24:09.7 alright @AB-2– let's start easing it over to one-one-six– nice and slow.  
01:24:13.7

**AB-2**

01:24:15.0 \* \* \*  
01:24:17.5

**AB-2**

01:24:22.2 slow.  
01:24:22.8

**2M**

01:24:23.1 nice and slow.  
01:24:24.1

**AB-2**

01:24:41.6 things are fixin' to change here.  
01:24:44.1

**AB-2**

01:24:44.7 here we go.  
01:24:46.5

**AB-2**

01:24:49.1 little rougher– little \* \* .  
01:24:54.0

**2M**

01:26:27.3 you comin' over again?  
01:26:28.6

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

01:26:28.7

yup.

01:26:29.4

**2M**

01:26:29.7

okay.

01:26:30.2

**AB-2**

01:26:30.7

just easin' it over.

01:26:32.6

**2M**

01:26:32.7

straighten' (it up) .

01:26:34.4

**2M**

01:28:14.3

one-one-six.

01:28:16.6

**AB-2**

01:28:18.7

(keep us/it keeps) comin'.

01:28:21.2

**AB-2**

01:28:26.9

\* \* wind heel. yeaaah.

01:28:32.9

**2M**

01:29:26.4

might have to make it one-one-four.

01:29:28.6

**AB-2**

01:29:29.7

one-one-four.

01:29:31.5

**2M**

01:29:33.2

just cause we're just a little bit south of the trackline. don't have too much wiggle room– so.– stay right on the trackline.– startin' to hear the wind now.

01:29:45.1

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

01:29:49.0  
01:29:51.9

\* \* \*.

**AB-2**

01:30:19.6  
01:30:21.6

one-one-four.

**2M**

01:30:21.5  
01:30:24.0

thank you. perfect. beautiful.

**AB-2**

01:30:27.4  
01:30:28.6

(yeah it's).

**AB-2**

01:30:31.5  
01:30:33.6

(ohh yeeeeeah).

**2M**

01:30:33.7  
01:30:34.7

can hear it.

**AB-2**

01:30:35.1  
01:30:36.2

yes \*.

**2M**

01:30:36.0  
01:30:42.0

we're also headed into a rain cloud. (a perfect band of rain)– a rain squall– comin' up.

**AB-2**

01:30:47.2  
01:30:48.9

\*.

**2M**

01:30:49.1  
01:30:52.8

yeah that's fine if she goes up a little (bit) further north.

**2M**

01:30:54.9  
01:30:56.5

\* \*.

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:31:31.3  
01:31:32.9

perfect. perfect.

**2M**

01:31:36.7  
01:31:39.6

so this is it. the rest of the watch. this course.

**2M**

01:31:46.1  
01:31:48.7

heeere. weee. gooo.

**AB-2**

01:31:52.7  
01:31:54.9

it ain't too bad right now.

**2M**

01:31:54.7  
01:31:55.3

nope.

**2M**

01:32:02.4  
01:32:08.7

keep an eye on the uh helm also. make sure that she's steering alright.  
like holding it.

**2M**

01:32:10.1  
01:32:14.4

remember that whole Jacksonville outbound incident \* \*.

**AB-2**

01:32:43.8  
01:32:44.5

\* \*.

**AB-2**

01:32:47.8  
01:32:49.9

lost a little speed.

**2M**

01:32:50.5  
01:32:55.0

yeah– well– that's alright. with the wind and then the course change.  
you know.

**2M**

01:32:56.2  
01:33:00.7

we also lost R-P-M. @3AE isn't paying attention down there.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

01:35:53.4 surprised that \* \* \* .  
01:36:03.5

**AB-2**

01:36:11.0 yeah. didn't rock the boat.  
01:36:12.9

**AB-2**

01:36:15.1 that's weird. I figured we'd get a little ro– something.  
01:36:18.3

**2M**

01:36:21.7 yeah. I'm not lettin' ya– (let my) \* stand up too much. [sound of laugh]  
01:36:27.5 just kiddin'.

**AB-2**

01:36:27.2 no.  
01:36:27.8

**2M**

01:36:28.3 now in the morning– it's totally (umm).  
01:36:30.4

**AB-2**

01:36:45.6 huh– ho– ho– ho.  
01:36:47.7

**2M**

01:36:47.6 is it blowin' pretty good out there now?  
01:36:49.5

**M3**

01:36:47.7 [sound of a loud clunk on bridge wing microphone, perhaps a door.]  
01:36:48.0

**AB-2**

01:36:49.3 helllll yeah.  
01:36:50.1

**2M**

01:36:50.1 yeah \* it's about right on our (back/bow/head).  
01:36:51.8

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**AB-2**  
01:36:51.9  
01:36:53.2

\* \* \*

**2M**  
01:36:53.3  
01:36:54.2

[sound of laugh]

**2M**  
01:36:58.3  
01:36:59.4

not too bad.

**2M**  
01:37:03.3  
01:37:04.6

I can stand up straight.

**AB-2**  
01:37:05.3  
01:37:05.8

yeah.

**2M**  
01:37:34.9  
01:37:36.6

\*

**2M**  
01:37:44.1  
01:37:47.6

oh yeah now it gets more (clouds/fun).

**2M**  
01:37:48.7  
01:37:50.7

(we're gunna be) gettin' wet.

**AB-2**  
01:37:57.3  
01:37:59.2

\* \* pitchin' a little bit.

**2M**  
01:38:00.5  
01:38:02.4

\* little \* \*.

**2M**  
01:38:03.8  
01:38:06.3

one good swell– every so often.

## Primary Communications

### M1/M2

01:38:07.1 [The AB-2 commented on whether the weather will continue to be foul  
01:40:03.7 the next day. The 2M and AB-2 discussed if there will be workers on  
deck during daylight hours. The 2M wondered if the workers will work  
on interior spaces on the ship instead.]

### ALL CHAN.

01:40:03.7 [Area of non-pertinent conversation or no conversation.]  
01:40:04.5

### 2M

01:40:04.5 [sound of quick laugh] usually people don't take the whole umm– uh–  
01:40:33.7 survival suit– safety meeting thing very seriously. then it's "yeah–  
whatever. it fits" but nobody actually sees to see if their survival suit fits.  
I think today would be a good day [sound of laugh] for– for– for the fire  
and boat drill– just be like– "so we just wanna make sure everyone's  
survival suit fits" and then with the storm people are gunna (go/be like)  
"holy #. I really need to see if my survival suit fits– for reaaal." [laughter  
throughout]

### 2M

01:40:34.5 nobody ever takes these– the drills– seriously.  
01:40:37.6

### AB-2

01:40:36.9 no. still have to do 'em.  
01:40:38.8

### ALL CHAN.

01:40:38.8 [Area of non-pertinent conversation or no conversation.]  
01:41:24.3

### 2M

01:41:24.3 captain was sound asleep.  
01:41:26.4

### 2M

01:41:27.0 it took a few rings for him to answer.  
01:41:29.0

### AB-2

01:42:58.5 did you see that?  
01:42:59.4

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:42:59.4  
01:43:00.1

what? no.

**AB-2**

01:43:00.1  
01:43:03.7

look. look. [exclaimed] look. [exclaimed] look downstairs-- I seen a flash.

**2M**

01:43:03.7  
01:43:04.2

where?

**AB-2**

01:43:04.4  
01:43:07.1

I just seen another one down here-- right there up on the bow.

**AB-2**

01:43:08.4  
01:43:09.9

it's like something's flashing.

**2M**

01:43:10.4  
01:43:11.4

it's flaaashing?

**AB-2**

01:43:12.4  
01:43:13.9

\* flash \* \*.

**2M**

01:43:14.3  
01:43:15.6

was it spray?

**AB-2**

01:43:22.0  
01:43:28.4

\* \* \* right there (on/in) the front of the ship-- right there it was two flashes of light.

**2M**

01:43:29.5  
01:43:30.0

huh?

**2M**

01:43:30.9  
01:43:32.0

over the ship?

## Secondary and Electronic Communications



## Primary Communications

**AB-2**

01:43:53.0

01:43:54.6

\* \* \*

**2M**

01:43:56.2

01:43:59.3

like just a beam of light? a flash of light?

**AB-2**

01:43:59.7

01:44:02.1

right down there in front of the ship. (there).

**2M**

01:44:02.2

01:44:03.1

ohhh.

**AB-2**

01:44:03.0

01:44:05.1

\* \* seen another.

**AB-2**

01:44:08.4

01:44:10.2

kinda weird.

**2M**

01:44:10.2

01:44:10.7

huh.

**2M**

01:44:11.7

01:44:12.9

light bulb blew?

**2M**

01:44:14.4

01:44:17.3

or maybe somebody turn on their lights– in their room?

**AB-2**

01:44:19.3

01:44:20.0

no. \* \* ...

**2M**

01:44:20.0

01:44:21.4

no it was really bright?

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

01:44:21.4

yeah. brighter (now/than that).

01:44:24.4

**2M**

01:44:24.9

well– the reefers– are pointing the other way.

01:44:28.4

**AB-2**

01:44:29.0

\* \* \*.

01:44:31.7

**AB-2**

01:44:39.4

did it twice.

01:44:40.7

**2M**

01:44:41.0

hmm.

01:44:41.5

**AB-2**

01:44:41.3

\* \* \* (gunna do).

01:44:43.8

**2M**

01:44:45.1

\* \* \*.

01:44:47.1

**2M**

01:45:34.8

(probably/was it) lightning.

01:45:35.9

**AB-2**

01:45:36.4

I said lightning.

01:45:37.6

**2M**

01:45:37.8

you say it's closer?

01:45:38.8

**AB-2**

01:45:39.0

yeah I saw \* \* (you know) what happens on a ship.

01:45:43.2

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:45:43.2 huh.  
01:45:43.5

**AB-2**

01:45:44.2 it wasn't uhh– lightning.  
01:45:48.3

**2M**

01:46:12.3 we don't have any lifejackets up here on the bridge– do we? like the *El*  
01:46:17.7 *Morro*?

**AB-2**

01:46:20.3 \* \* \*  
01:46:21.8

**2M**

01:46:21.9 cause I was thinkin' about that– safety stuff that was (on) the *El Morro*–  
01:46:32.0 we don't have over here.– it used to be in the \* \*. (they're not there/it  
was much better).

**AB-2**

01:50:26.2 yeah on the northern track of the storm they had one– one track–  
01:50:36.0 headed straight for Jacksonville. the rest of them go up north.

**2M**

01:50:36.0 yeah I saw that. it was one– one sole track up zoooooom [“zoom”  
01:50:47.8 spoken descriptively] but yeah. there were several tracks going all the  
same place– direction. northeast.

**AB-2**

01:50:51.6 it think North Carolina– they always get the brunt of 'em.  
01:50:54.8

**2M**

01:50:54.9 yeah. Cape Hatteras.  
01:50:56.2

**2M**

01:50:57.5 [sound of quick laugh] yeah every hurricane (be like) "slaam [slam]– #  
01:51:01.5 you!"

## Secondary and Electronic Communications

## Primary Communications

**2M**

01:51:04.0 they get slammed all the time.  
01:51:06.0

**2M**

01:51:10.4 this uh– if this takes the same path– it looks like it could be another  
01:51:18.8 Sandy [Hurricane Sandy, October 2012.] hit New York.

**AB-2**

01:51:18.8 yep.  
01:51:20.0

**M1**

SUMMARIZED AREA

01:51:25.1 [The conversation continued with the AB-2 speculating on the effect of  
01:51:56.1 the Hurricane Joaquin on the coastline. They stopped talking and the  
news radio was turned up a bit louder. The SXM radio was then turned  
lower during a commercial break. The 2M asked AB-2 if he'd like some  
coffee.]

**2M**

01:55:41.4 wooo. that was a good one.  
01:55:44.5

**AB-2**

01:55:45.7 \* . \* \* .  
01:55:49.9

**2M**

01:56:06.4 definitely lost some speed.  
01:56:08.7

**2M**

01:56:10.6 although we're not doin' the max R-P-Ms.  
01:56:13.4

**AB-2?**

01:56:23.9 \* \* \* .  
01:56:26.0

**AB-2**

01:56:39.0 damn sure don't wanna lose the plant.  
01:56:41.2

## Secondary and Electronic Communications

**Primary Communications**

**2M**

01:56:41.6  
01:56:42.7

nah.

**AB-2**

01:56:44.2  
01:56:47.1

do a lot of things. but you don't wanna do that.

**2M**

01:56:46.9  
01:56:47.4

[sound of low laugh]

**2M**

01:56:48.4  
01:56:49.7

definitely not.

**Secondary and Electronic Communications**

**SXM**

01:59:14.4  
02:01:02.6

[The SXM radio was turned louder in volume during a political news segment and obscured many of the words in the next segment of the transcript.]

**ALL CHAN.**

02:01:02.6  
02:11:18.5

[Area of non-pertinent conversation or no conversation.]

**2M**

02:11:18.5  
02:11:21.1

ohhh– that's (strange/sprayin') \* \*.

**AB-2**

02:11:20.3  
02:11:21.8

startin' to (hit the)

**AB-2**

02:11:23.9  
02:11:26.3

winds are supposed to pick up \* \*.

**2M**

02:11:26.4  
02:11:27.5

\* \*.

## Primary Communications

**2M**

02:11:28.4  
02:11:30.3

green water on the bow.

**AB-2**

02:11:31.0  
02:11:34.1

there's some clanking going on. \* \* .

**2M**

02:11:34.4  
02:11:36.6

we could hear a lot of clankin'

**AB-2**

02:11:36.9  
02:11:40.7

\* \* \* .

**AB-2**

02:11:42.0  
02:11:44.0

\* \* \* .

**AB-2**

02:11:45.7  
02:11:46.6

pickin' up.

**2M**

02:11:50.7  
02:11:52.5

\* \* (steerin' one-one-four).

**AB-2**

02:11:52.4  
02:11:52.8

yes.

**AB-2**

02:11:58.6  
02:12:00.0

\* \* \* .

**2M**

02:12:00.2  
02:12:03.3

\* \* \* (get/gettin') set.

**AB-2**

02:12:07.6  
02:12:08.7

\* \* \* .

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:12:08.7 (I don't know)  
02:12:010.0

**2M**

02:12:20.6 yeah it's not...  
02:12:22.8

**AB-2**

02:12:25.3 \* \* \*  
02:12:26.6

**2M**

02:12:38.7 \* \* \*  
02:12:42.0

**AB-2**

02:12:45.5 (what's/that's) the latest (\* \* \*).  
02:12:48.3

**2M**

02:12:51.0 (the swell should be) \* \* \* (here).  
02:12:53.3

**AB-2**

02:12:57.5 \* \* \*  
02:12:58.9

**2M**

02:13:23.0 \* \* \*  
02:13:24.9

**AB-2**

02:13:25.0 yeah.  
02:13:25.6

**2M**

02:13:25.6 we're definitely getting set.  
02:13:27.5

**AB-2**

02:15:31.9 down to sixteen knots.  
02:15:33.8

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:15:36.8  
02:15:39.1

yeah— (it's uh)—

**2M**

02:15:41.4  
02:15:43.4

givin' us what they can I guess.

**AB-2**

02:15:43.3  
02:15:44.2

\*.

**2M**

02:22:46.3  
02:22:48.8

that wind is definitely picking up.

**2M**

02:23:04.0  
02:23:04.7

[sound of yawn]

**AB-2**

02:23:04.4  
02:23:06.4

yep. everything's gunna pick up.

**AB-2**

02:23:23.2  
02:23:24.6

\* \* .

**AB-2**

02:23:32.0  
02:23:34.6

the weather takes a toll on your body too.

## Secondary and Electronic Communications

**SXM**

02:20:08.9  
02:20:17.8

[A teaser for Hurricane Joaquin coverage played on the news radio then the broadcast cut to commercials.]

**SXM**

02:22:49.0  
02:22:51.0

[SXM transitioned from playing loudly to more softly.]



## Primary Communications

**2M**

02:23:35.2 yeah.  
02:23:35.9

**ALL CHAN.**

02:23:35.9 [Area of non-pertinent conversation or no conversation.]  
02:35:06.3

**AB-2**

02:35:06.3 \* (just then).  
02:35:07.5

**2M**

02:35:07.8 huh?  
02:35:08.2

**AB-2**

02:35:09.3 we took a little rock– just then.  
02:35:11.1

**2M**

02:35:47.0 well– the upside is– we're pitching not rolling. (ya know/although)– for  
02:36:03.8 whatever reason– pitching gets me more seasick than rolling. cause  
rolling I can do all day. pitching– eh– not so much.

**ALL CHAN.**

02:36:03.8 [Area of non-pertinent conversation or no conversation.]  
02:39:30.7

**AB-2**

02:39:30.7 seas are farther apart.  
02:39:32.6

**2M**

02:39:32.8 yeah.  
02:39:33.6

**AB-2**

02:39:34.7 \* \* this (door over here).  
02:39:36.5

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:39:39.5  
02:39:41.4

hearin' it in the house.

**2M**

02:39:52.0  
02:39:55.4

gunna blow past it– get out of it.

**2M**

02:41:36.7  
02:41:37.1

what was that?

**AB-2**

02:41:37.8  
02:41:38.8

I dunno.

**AB-2**

02:41:39.7  
02:41:40.5

I heard it.

**AB-2**

02:42:09.0  
02:42:09.8

mmm.

**2M**

02:42:10.1  
02:42:12.6

weee.[exclaimed] look at that spray.

**2M**

02:42:22.0  
02:42:24.6

oh #. oh my god– ahhh.

**AB-2**

02:42:25.2  
02:42:26.6

(oh this might)...

**2M**

02:42:26.3  
02:42:26.7

[sound of straining]

**2M**

02:42:30.4  
02:42:32.5

\* for the (damn satellite/antenna)

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

02:42:38.0

I dunno if you can get around here.

02:42:39.7

**2M**

02:42:39.7

can I see your flashlight real quick?

02:42:41.2

**2M**

02:42:42.4

just blew over there.

02:42:43.6

**2M**

02:43:08.6

I don't know where that's from— it must have been an extra one. (cause uh)...

02:43:11.8

**AB-2**

02:43:11.5

there must be another one on the back up here.

02:43:14.2

**2M**

02:43:14.2

where?

02:43:14.6

**AB-2**

02:43:15.6

there's one sittin' on the deck right over here.

02:43:17.5

**2M**

02:43:17.5

oh— well that's it then. that's for \*.

02:43:20.3

**2M**

02:43:24.7

it's really whipping around the house.

02:43:27.2

**2M**

02:43:35.5

I just happened to look out and see the damn white thing rollin' around like— "what the # is that?"

02:43:41.3

**2M**

02:43:45.1

\* there. thank you.

02:43:46.3

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:44:22.3  
02:44:24.5

and that north wind.

**2M**

02:44:26.6  
02:44:28.3

northerly wind.

**2M**

02:45:37.1  
02:45:39.7

anything else blowing around out there?

**AB-2**

02:45:40.4  
02:45:46.8

\*\* little pieces of strap around. it's not going anywhere.

**AB-2**

02:45:51.0  
02:45:58.7

it goes it goes. not going \* there in that #.

**AB-2**

02:46:20.5  
02:46:23.3

well we ain't got long. 'bout an hour.

**2M**

02:46:23.5  
02:46:33.1

yeah. getting in to the brunt of it at the end of our watch.

**AB-2**

02:46:36.9  
02:46:39.5

walk my ass to my bed.

**2M**

02:46:39.0  
02:46:40.2

[sound of laughter]

**AB-2**

02:46:42.9  
02:46:45.1

might not get up tomorrow.

**2M**

02:46:45.2  
02:46:49.4

yup. least you have that option.

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:47:00.8 pretty much committed now.  
02:47:02.5

**AB-2**

02:47:19.1 figured the captain would be up here.  
02:47:21.3

**2M**

02:47:21.0 I thought so too. I'm surprised.  
02:47:24.3

**AB-2**

02:47:24.0 damn.  
02:47:25.3

**2M**

02:47:29.0 he said he was gonna come up. when I asked him that— he said that  
02:47:35.9 yesterday. he said that today he said he would probably be up here.

**AB-2**

02:47:37.3 \* he'll play hero tomorrow.  
02:47:39.9

**2M**

02:47:40.1 [sound of laughter]  
02:47:41.3

**2M**

02:47:44.5 \* \* \*  
02:47:47.6

**M1**

02:47:50.0 [ambient sound increased briefly.]  
02:47:54.0

**AB-2**

02:47:50.9 oh.  
02:47:51.5

**2M**

02:47:51.0 #. oh #. that was a bad one.  
02:47:54.2

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

02:47:55.6

\* going on here. \* \* \*.

02:48:02.5

**2M**

02:48:02.9

what's that?

02:48:03.7

**AB-2**

02:48:04.8

looks like we got knocked off course a little bit but it's coming back.

02:48:08.9

**2M**

02:48:08.9

coming back?

02:48:09.6

**AB-2**

02:48:09.6

yeah it is.

02:48:11.4

**2M**

02:48:10.4

yeah it is.

02:48:11.3

**AB-2**

02:48:10.8

it's on course right now.

02:48:12.2

**2M**

02:48:12.1

that surprises me.

02:48:13.8

**AB-2**

02:48:13.4

yeah.

02:48:14.7

**2M**

02:48:15.2

that was a doozy. [sound of laughter] that was not a good one.

02:48:19.3

**AB-2**

02:48:20.6

yeah that was a big wave.

02:48:22.7

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:48:27.8 (we/she) won't be able to take more of those.  
02:48:31.3

**2M**

02:48:33.8 would help if I knew which direction the swell was coming from. I could  
02:48:43.0 alter course a little more. can't see \*.

**2M**

02:48:53.4 \* \*.  
02:48:56.8

**2M**

02:49:25.7 woohoo \* \* \*.  
02:49:34.5

**AB-2**

02:50:16.5 I heard that.  
02:50:19.8

**AB-2**

02:50:23.2 I heard a thump.  
02:50:24.6

**2M**

02:50:24.7 huh?  
02:50:25.1

**AB-2**

02:50:25.0 boom. [exclaimed] I heard a thump.  
02:50:27.1

**2M**

02:50:27.2 oh it must be inside then.  
02:50:29.1

**AB-2**

02:50:29.5 might be inside.  
02:50:31.5

**2M**

02:50:32.0 well it's probably a bunch of # broke loose down there.  
02:50:37.3

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

02:50:36.5

like my T-V.

02:50:38.1

**2M**

02:50:37.9

[sound of laughter] someone's T-V.

02:50:40.4

**2M**

02:50:43.3

(considerable) #.

02:50:44.5

**AB-2**

02:50:44.7

I'll know when I see it.

02:50:46.2

**AB-2**

02:50:47.3

\* \* \*.

02:50:49.9

**AB-2**

02:50:52.1

yeah.

02:50:53.2

**AB-2**

02:50:53.8

ease down on that baby.

02:50:55.4

**2M**

02:50:55.3

[sound of laugh] \* \* \*.

02:50:57.6

**AB-2**

02:50:57.5

hit that one right.

02:50:58.7

**2M**

02:50:59.6

(we're really in the #/ \* \* ship resistance).

02:51:01.7

**AB-2**

02:51:10.4

yeah \* \* (good one) \* \*.

02:51:13.9

## Secondary and Electronic Communications



## Primary Communications

**AB-2**

02:51:25.6

both feet are locked in.

02:51:27.7

**2M**

02:51:27.8

[sound of laughter] (watch out) I had to sit down for that one.

02:51:31.9

**2M**

02:53:41.5

can you close that curtain?

02:53:42.8

**M1**

02:53:44.4

[sound similar to curtain moving on metal curtain track.]

02:53:45.2

**2M**

02:53:45.3

thanks.

02:53:46.0

**2M**

02:53:48.7

she's righting herself.

02:53:50.8

**M1**

02:53:53.4

[sound of electronic tone consistent with steering stand alarm.]

02:54:01.4

**AB-2**

02:53:55.3

hell's that?

02:53:56.2

**2M**

02:53:56.1

uhh- the helm

02:53:57.9

**2M**

02:53:58.5

she off course?

02:54:00.3

**AB-2**

02:53:59.9

she is.

02:54:00.6

## Secondary and Electronic Communications

## Primary Communications

**2M**

02:54:01.4 uhh– oh he's got it set to like three degrees off course.  
02:54:06.2

**2M**

02:54:13.7 now she's comin' back.  
02:54:16.0

**2M**

02:54:23.2 she's doin' good. I'm impressed. knock on wood. a lot better than the  
02:54:28.7 Jacksonville experience.

**AB-2**

02:54:30.3 yeah it is.  
02:54:32.4

**AB-2**

02:54:34.5 (they/I) got something set right.  
02:54:36.5

**2M**

02:54:36.4 yeah I'm not touching a thing on that.  
02:54:38.6

**2M**

02:54:41.0 whatever the settings are– they're good.  
02:54:43.8

**AB-2**

02:54:51.5 just hold out baby– we ain't got but an hour to go.  
02:54:54.5

**2M**

02:54:55.7 we're just breaking her in and gettin' it ready for Alaska.– only  
02:55:02.6 difference is– this is warm. [sound of laugh]

**AB-2**

02:55:04.1 yeah just imagine what it's like right here when it's like freezing outside.  
02:55:07.9

**2M**

02:55:09.5 crazy to go outside for your smoking. [The 2M spoke over an  
02:55:11.7 unintelligible comment from AB-2.]

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

02:55:12.4

02:55:16.9

yeah I \* \* \* you'll freeze your ass off.

**2M**

02:55:37.6

02:55:50.9

I'm gunna pack some– winter clothes– just in case. that nobody could give us a freakin' answer on when we we're gunna be in Alaska.– I was like "uht I guess I'll pack for uh just in case."

**AB-2**

02:55:53.6

02:55:55.1

guess you never know.

**2M**

02:55:55.3

02:55:55.9

yeah.

**2M**

02:55:56.8

02:55:58.4

just leave it here.

**2M**

02:56:15.3

02:56:20.7

oh come on now. nice and eaaasy.

**AB-2**

02:56:26.3

02:56:29.6

winds are stronger \* \* .

**AB-2**

02:56:37.9

02:56:40.5

that ain't– ain't helpin'

**2M**

02:56:40.5

02:56:41.4

[sound of chuckle.]

**2M**

02:59:27.5

02:59:34.1

this ship can't handle this hurricane– suuure as hell won't be able to handle Alaska.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

02:59:40.6

yeah I agree.

02:59:42.5

**2M**

02:59:45.0

the only comforting thing is that this ship has much better steel than the *El Morro*.

02:59:50.4

**2M**

02:59:54.8

she's still pretty solid.

02:59:57.3

**2M**

02:59:58.7

the *El Morro*— with her thin steel \* hell of a storms.

03:00:03.1

**AB-2**

03:00:19.6

\*.

03:00:20.9

**M1**

03:00:45.8

[sound similar to clacking or tapping on the steel deck.]

03:00:47.8

**2M**

03:00:47.8

rhut row. [spoken in a Scooby Doo voice]

03:00:49.1

**AB-2**

03:00:49.6

hell was that?

03:00:51.1

**2M**

03:00:51.4

something on the flying bridge.

03:00:53.4

**AB-2**

03:00:53.3

huh?

03:00:54.0

**2M**

03:00:54.3

something up on the flying bridge.

03:00:55.9

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

03:01:04.2  
03:01:07.0

\* \* \*

**2M**

03:04:57.0  
03:04:58.8

[sound of cough]

**AB-2**

03:05:24.7  
03:05:25.7

was that something else?

**2M**

03:05:25.6  
03:05:29.3

yeah it was me. fricken @3M's cigarette thing.

**2M**

03:05:30.7  
03:05:35.6

layin' here attached to \* \*. I put my water bottle down and it fell.

**AB-2**

03:05:36.0  
03:05:37.6

\* \* (hope nothing) broken.

**2M**

03:05:37.9  
03:05:39.0

[sound of laugh]

**AB-2**

03:05:39.0  
03:05:40.5

outside.

**2M**

03:05:40.2  
03:05:41.1

did it?

**AB-2**

03:05:41.4  
03:05:45.2

yeah-- you don't wanna get out there in that wind-- get caught with a gust now.

**2M**

03:05:45.8  
03:05:47.6

I can hear it gusting.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

03:05:47.4 yeah.  
03:05:48.1

**AB-2**

03:06:03.6 \* \* \*  
03:06:05.2

**AB-2**

03:06:07.1 wow.  
03:06:07.6

**2M**

03:06:08.6 (heading/getting) through it 'bout two hours and then– it'll be on our  
03:06:14.8 stern– and we'll be pullin' away all the time.

**AB-2**

03:06:27.0 when that sun come's up everyone's gunna be surprised.  
03:06:29.9

**AB-2**

03:07:18.3 got the heater on over there?  
03:07:20.3

**2M**

03:07:20.2 no.  
03:07:21.3

**2M**

03:07:24.4 I don't think so.  
03:07:25.7

**AB-2**

03:07:31.4 feels like an icebox in here.  
03:07:33.5

**2M**

03:07:34.0 (as long as) that vent's open you are.  
03:07:36.5

**?**

03:09:17.9 \* \*  
03:09:18.6

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

03:09:18.2 (low/hello).  
03:09:19.2

**AB-2**

03:09:55.8 nice and cool down there in the engine room.  
03:09:58.3

**2M**

03:09:59.2 [sound of laugh] I could not do that– bein' in the engine room with the  
03:10:07.0 ship rockin' and rollin'. ugh.

**2M**

03:10:11.1 I'd get so sick.  
03:10:12.4

**2M**

03:10:35.8 \*. [sound of chuckle]  
03:10:37.2

**2M**

03:10:40.3 you want a fresh breeze through the bridge– all you have to do is open  
03:10:43.8 up the port door.

**AB-2**

03:10:46.7 # (step/come) right on in.  
03:10:48.5

**AB-2**

03:12:52.3 guess I'll make (that) coffee.  
03:12:55.0

**2M**

03:16:50.6 says the wind's supposed to be west-southwest. should be comin' on  
03:16:57.2 the (forty-five/port side).

**2M**

03:17:23.8 \* \* \* (different from– oops).  
03:17:26.1

**2M**

03:17:35.7 let's see that's– that's west-northwest.  
03:17:39.9

## Secondary and Electronic Communications

## Primary Communications

**2M**

03:17:44.0 it's (more/north) northwest at fifty.  
03:17:46.6

**2M**

03:19:58.8 ohhh it is that time...  
03:20:00.8

**2M**

03:20:01.7 ...if they are not awake already.  
03:20:03.8

**AB-2**

03:20:08.1 \* \* \*  
03:20:09.4

**2M**

03:20:18.0 \* \* (found his drills).  
03:20:20.7

**AB-2**

03:20:20.4 yeah (maybe)  
03:20:21.4

**AB-2**

03:20:22.6 I bet they're thrilled about coming up here (in) \* \*.  
03:20:25.9

**2M**

03:20:27.1 oh no– no– no. don't want that. smash and crash.  
03:20:31.7

**M1**

03:20:35.5 [sound of electronic tone consistent with helm off course alarm.]  
03:20:39.5

**AB-2**

03:20:37.6 push that button.  
03:20:38.8

**2M**

03:20:39.3 yeaah. I got it.  
03:20:40.3

## Secondary and Electronic Communications



## Primary Communications

**2M**

03:20:42.4  
03:20:44.6

she just got– popped in the ass.

**AB-2**

03:20:54.9  
03:20:57.9

yeah it's startin' to get a lil-little bit more active around here.

**M1**

03:20:58.7  
03:21:00.5

[sound of electronic tone consistent with helm off course alarm.]

**2M**

03:20:58.9  
03:21:02.0

yes– yes I know. we're tryin'

**2M**

03:21:04.4  
03:21:06.9

that just kind of threw her for a loop.

**2M**

03:21:15.0  
03:21:18.6

yeah– she's goin'– she's goin' left– she's got right rudder.

**AB-2**

03:21:19.5  
03:21:20.9

\* \* \*

**2M**

03:21:24.8  
03:21:32.1

she's got it– just kind of shocked her. (I accidently hit my head let's hope) nothing else happens.

**AB-2**

03:22:21.5  
03:22:25.1

damn– \* got some wind in our face.

**2M**

03:22:28.4  
03:22:30.3

what's that? [sound similar to hiccup]

**2M**

03:22:34.5  
03:22:37.0

feel like it. [sound of quick laugh] (starting/tryin') to hang (on / more)?

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**AB-2**  
03:22:36.5  
03:22:36.8

yeah.

**2M**  
03:22:37.3  
03:22:37.7

huh?

**AB-2**  
03:22:37.8  
03:22:39.0

hear that wind out there?

**2M**  
03:22:39.0  
03:22:39.3

yeah.

**2M**  
03:22:42.5  
03:22:44.5

yup we're gettin' into it now.

**AB-2**  
03:22:44.4  
03:22:46.4

yeah (it's startin' good).

**2M**  
03:22:46.5  
03:22:47.9

hello Joaquin.

**AB-2**  
03:22:48.4  
03:22:49.0

\* .

**2M**  
03:22:56.0  
03:23:01.3

we are \* \* . \* \* pretty good set on us.

**2M**  
03:23:06.6  
03:23:09.4

\* . get gettin' kinda set.

**AB-2**  
03:23:24.4  
03:23:28.0

\* \* \* .

## Primary Communications

**AB-2**

03:23:52.8

03:23:53.7

\* \* \*

**2M**

03:24:19.3

03:24:21.9

that door blow open– or just the wind?

**AB-2**

03:24:21.9

03:24:23.3

just the wind.

**AB-2**

03:24:25.6

03:24:29.3

man it picked up in the last five minutes.

**2M**

03:24:35.8

03:24:49.9

I think it's shifting. cause that weather report say tha– uhh– west-southwest wind which we were not getting but I think its starting to shift west and now its coming back around. we're gunna start getting it on the starboard side.

**AB-2**

03:24:55.9

03:24:58.6

feel that wind beatin' on that \*.

**AB-2**

03:27:49.6

03:27:51.8

think there's something (ahead/out there).

**2M**

03:27:52.0

03:27:52.6

huh?

**AB-2**

03:27:53.3

03:27:55.1

look at that radar.

**2M**

03:27:57.1

03:28:02.2

yeah– I'm just lookin' at how much we're gettin' set. umm...

## Secondary and Electronic Communications

## Primary Communications

**2M**

03:28:29.5 it's just gettin' bigger– our path is going right through it.  
03:28:34.0

**AB-2**

03:28:35.4 (ain't no/she's doin') good. (need to get outta here).  
03:28:39.6

**2M**

03:28:39.1 it's good (just keep bein' like) fifteen more minutes. (keep it).  
03:28:43.4

**AB-2**

03:28:40.1 and then we're off.  
03:28:41.3

**AB-2**

03:28:44.8 then we're off.  
03:28:45.7

**AB-2**

03:28:48.9 see what's ahead of us.  
03:28:51.0

**2M**

03:28:53.6 (boy) the wind is blowin' like a bastard– but considering– we're we're  
03:29:03.6 riding pretty damn good.

**AB-2**

03:29:04.0 yeah that's what I'm thinkin'.  
03:29:05.5

**2M**

03:29:06.4 considering what it could be like.  
03:29:08.0

**AB-2**

03:29:08.0 whooo.  
03:29:09.0

**AB-2**

03:29:09.6 put this sucker into hand right now.  
03:29:11.9

## Secondary and Electronic Communications

## Primary Communications

**2M**

03:29:12.4 [sound of chuckle] yeah– you'd be gettin' your money's worth.  
03:29:15.9

**AB-2**

03:29:17.0 (playin' pickle).  
03:29:18.2

**AB-2**

03:29:21.1 goin' one side or the other.  
03:29:22.2

**2M**

03:29:26.7 you know overall we're not bad right now.  
03:29:31.0

**2M**

03:29:36.4 wondering if– with the storm– I mean it's just sittin' out there \*– but the  
03:29:51.3 storm itself– the hurricane– it's so new– that I'm wondering if just it  
hasn't had time to develop a big swell.

**AB-2**

03:29:51.2 \* \* knows.  
03:29:53.4

**2M**

03:29:53.3 this thing's really big.  
03:29:54.9

**2M**

03:29:57.9 this wind is just recently starting to pick up.  
03:30:01.1

**AB-2**

03:30:08.5 \* probably surprised in the morning when they get up here.  
03:30:12.1

**AB-2**

03:30:13.8 (don't think he did).  
03:30:15.3

## Secondary and Electronic Communications

## Primary Communications

**2M**

03:30:15.1  
03:30:17.0

we're hittin' it just right too.

**AB-2**

03:30:17.1  
03:30:20.7

uh-- yeah we just. we're-- we're doin' good right now.

**AB-2**

03:30:21.9  
03:30:30.9

change something up right now-- we'll get off.-- it don't come real easy.--  
anyway.

**AB-2**

03:30:32.1  
03:30:33.8

we're lucky. we got lucky.

**2M**

03:30:34.5  
03:30:35.2

ohhh yeah.

**AB-2**

03:30:35.4  
03:30:37.2

you didn't have a light on here?

**2M**

03:30:37.1  
03:30:37.9

ohhh #.

**AB-2**

03:30:39.1  
03:30:42.2

\* \* \*.

**2M**

03:30:42.3  
03:30:46.1

\* \* \*.

**2M**

03:30:47.1  
03:30:47.5

\*...

**AB-2**

03:30:47.3  
03:30:50.6

\* \* (chair) flip it upside down.

## Secondary and Electronic Communications

## Primary Communications

**2M**

03:30:50.5  
03:30:51.2

(get it/yeah it is).

**AB-2**

03:31:10.5  
03:31:14.0

it's blowin' out there now girl. whoa.

**2M**

03:31:14.6  
03:31:16.6

(just get through it/it's not bad huh) \*.

**2M**

03:31:44.5  
03:31:55.1

(hundred knot gust of) wind [sound of laughter, then the sound of a sigh.]

**AB-2**

03:32:30.2  
03:32:31.8

\* \* \*.

**AB-2**

03:32:49.4  
03:32:51.4

[sound of yawn.]

**2M**

03:36:16.1  
03:36:18.2

kinda like pressure washin' the decks.

**AB-2**

03:36:20.2  
03:36:22.8

yeah it's blowin' that rain so hard.

## Secondary and Electronic Communications

**M1**

03:33:05.4  
03:33:07.9

[sound of electric telephone ringing.]

**2M-ET**

03:33:08.2  
03:33:09.4

theee bridge.

**2M-ET**

03:33:11.9  
03:33:13.0

eighty turns.

## Primary Communications

**AB-2**

03:39:49.3  
03:39:51.1

\* (good).

**2M**

03:39:51.2  
03:39:52.1

[sound of laugh]

**AB-2**

03:39:54.3  
03:40:01.2

(well it's comin at us). \* \* \*.

**M1**

03:40:11.1  
03:40:16.1

[An unintelligible conversation was taking place not near a microphone.]

**2M**

03:40:17.0  
03:40:20.2

(alright we got one hell of a) set \* on us.

**AB-2**

03:40:37.5  
03:40:39.7

(right behind/rip me out of) that chair over there.

**2M**

03:40:39.8  
03:40:40.5

[sound of laughter]

**AB-2**

03:40:58.9  
03:41:02.9

(I'm holdin') this for you but you (can/can't) for me.

**AB-2**

03:41:52.9  
03:41:53.6

(man).

**AB-2**

03:41:56.5  
03:41:57.4

you got the \* \* \*.

**2M**

03:41:58.3  
03:42:01.6

\* \* (around) \* \* \*.

## Secondary and Electronic Communications



## Primary Communications

**AB-2**

03:42:04.5  
03:42:06.8

\* \* \*

**2M**

03:42:06.9  
03:42:15.0

[sound of chuckle] (starting to shift there.) uh let's come over. what are we doin'? one-one-two.

**AB-2**

03:42:14.9  
03:42:15.6

yeah.

**2M**

03:42:15.5  
03:42:23.7

let's do one-one-zero. (we'll) just do it bit by bit. startin' to roll now so you gotta come over to port.

**AB-2**

03:42:26.2  
03:42:26.7

alright.

**2M**

03:42:26.4  
03:42:29.0

you already steering one-one-zero right?

**AB-2**

03:42:29.5  
03:42:30.4

one-one-zero?

**2M**

03:42:30.3  
03:42:32.3

yeah then I \* \*.

**AB-2**

03:42:36.4  
03:42:37.1

(now/no).

**2M**

03:42:48.1  
03:42:49.2

this is Joaquin.

**2M**

03:42:50.9  
03:42:52.5

we're into it now.

## Secondary and Electronic Communications

## Primary Communications

**AB-2**

03:43:40.3 started to \*.  
03:43:41.5

**2M**

03:43:41.3 \*.  
03:43:42.3

**2M**

03:43:49.0 we're riding nice on that course for the past two minutes (now) \* \*  
03:44:01.2 \*(should) \* \* \* (over more) \* \* \* so. and we're getting set.

**CM**

03:44:17.3 (it's/that's) a lot further south \*.  
03:44:18.6

**2M**

03:44:20.0 yeah umm we just (made it/needed) one-one-zero.  
03:44:24.2

**2M&CM**

03:44:28.5 [An unintelligible conversation between 2M and CM, the only detectable  
03:45:49.0 words were spoken by the 2M, "called the captain."]

**2M**

03:45:52.5 and this \* \* this \* \* (blew off).  
03:45:59.4

**AB-2**

03:45:59.7 (sup mate).  
03:46:00.6

## Secondary and Electronic Communications

**M1**

03:45:49.4 [sound of electric telephone ringing.]  
03:45:51.8

**M1**

03:45:55.6 [sound of electric telephone ringing.]  
03:45:58.1

**2M-ET**

03:46:00.5 the bridge.  
03:46:02.1

## Primary Communications

**CM**  
03:46:08.5 so you can't see a thing huh?  
03:46:10.7

**AB-2**  
03:46:10.5 yeah.  
03:46:11.0

**2M**  
03:46:14.5 alright @2AE's blowin' tubes.  
03:46:15.3

**AB-2**  
03:46:16.0 (if) anybody's out there they gotta be a damn fool.  
03:46:18.6

**2M**  
03:46:21.7 no I haven't had any traffic.  
03:46:23.2

**CM**  
03:46:23.8 nothing on this (this/list).  
03:46:25.6

**2M**  
03:46:27.4 nothing. so we're one-one-zero. uh about max they can give us with  
03:46:34.0 @2AE blowin' soot right now.

**CM**  
03:46:34.6 okay. (wait) how long ago did you turn left to one-one-zero?  
03:46:38.0

## Secondary and Electronic Communications

**2M-ET**  
03:46:03.2 [sound of chuckling] you like it? [spoken loudly]  
03:46:04.8

**2M-ET**  
03:46:06.6 (sound/well) good.  
03:46:07.8

**2M-ET**  
03:46:11.1 \* \* \*  
03:46:12.7

## Primary Communications

**2M**

03:46:38.0 um it was four– four (or) five minutes ago.  
03:46:42.4

**AB-2**

03:46:42.0 yeah.  
03:46:42.3

**2M**

03:46:42.4 yeah.  
03:46:42.9

**2M**

03:46:44.1 it's uh– she's been holdin' pretty good. um– when you get uh the good  
03:46:55.6 slams and the good pitches she might lose it a little bit but overall she's  
been holdin' good knock on wood.

**CM**

03:46:54.6 okay.  
03:46:55.3

**CM**

03:46:57.1 alright I'll see ya. one-one-zero.  
03:46:59.0

**2M**

03:46:58.8 okay. one-one-zero.  
03:47:00.7

**2M**

03:47:02.1 \* I don't know what's (fallin'/crawlin') down \* \*. [sound of laughter]  
03:47:04.7

**M1**

03:47:04.7 [sound of electronic tone consistent with steering stand alarm.]  
03:47:10.5

**2M**

03:47:06.9 that's the (G-F) \* (alarm).  
03:47:09.8

## Secondary and Electronic Communications

## Primary Communications

**2M**

03:47:10.7 she'll come back. she did that a couple of times just because uh– we  
03:47:15.3 pitched so bad.

**CM**

03:47:16.3 okay \* come left and steer one-zero-zero.  
03:47:18.9

**2M**

03:47:16.4 and uh...  
03:47:17.7

**AB-2**

03:47:19.2 one-zero-zero?  
03:47:21.1

**CM**

03:47:20.9 yep.  
03:47:21.5

**2M**

03:47:21.6 alright.  
03:47:22.5

**CM**

03:47:21.6 walk it over a little at a time.  
03:47:23.9

**2M**

03:47:24.9 have a good watch.  
03:47:26.6

**CM**

03:47:25.9 thank you.  
03:47:26.4

**CM**

03:47:35.6 it's hard to tell which ways the wind's blowin' huh?  
03:47:37.8

**AB-2**

03:47:38.7 what was that?  
03:47:39.5

## Secondary and Electronic Communications

## Primary Communications

**CM**

03:48:01.1 I assume that we're heelin' to starboard (must be blowin') port to  
03:48:04.8 starboard.

**AB-2**

03:48:32.2 got (the/this).  
03:48:33.3

**CM**

03:48:33.3 (I) saw that.  
03:48:34.4

**AB-2**

03:48:34.3 \* island on the radar.  
03:48:37.8

**CM**

03:48:51.8 but it's been holdin' okay on the autopilot right?  
03:48:53.9

**AB-2**

03:48:53.7 yeah \* \* every once in a while you get this alarm it sounds.  
03:49:00.5

**CM**

03:48:59.8 okay.  
03:49:00.3

**AB-1**

03:49:38.2 \*.  
03:49:39.1

**AB-2**

03:49:44.5 'kay we got one-zero-zero. checkin' one-(zero/two)-two. looks like it  
03:49:59.1 knockin' off \* zero once in a while \* \* \* the alarm will go off \* \* \* sounds  
\* \* .

**AB-1**

03:49:59.5 yeah \*.  
03:50:00.2

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**AB-2?**

03:50:05.5  
03:50:06.1

okay.

**CM**

03:50:07.7  
03:50:08.7

(get) some rest.

**AB-2**

03:50:38.1  
03:50:39.7

have a good one mate.

**AB-1**

03:50:44.3  
03:50:46.1

\* \* .

**AB-1**

03:50:50.6  
03:50:52.4

\* \* one of 'em.

**AB-2**

03:50:52.4  
03:50:54.0

one-zero-zero mate

**CM**

03:50:54.2  
03:50:55.1

alright \*

**CM**

03:51:00.1  
03:51:01.5

don't like this.

**AB-1**

03:51:04.3  
03:51:06.1

hold on.

**M1**

03:51:10.8  
03:51:23.3

[sound of electronic tone consistent with steering stand alarm.]

**CM?**

03:51:20.9  
03:51:22.9

(check the) \* \* (open) .

## Primary Communications

**M1**

03:52:00.8 [sound of electronic tone consistent with steering stand alarm.]  
03:52:07.2

**CM**

03:52:24.5 \* steering course (alarm).  
03:52:26.5

**CM**

03:52:50.2 come left to zero-nine-five.  
03:52:52.5

**M1**

03:53:00.9 [sound of electronic tone consistent with steering stand alarm.]  
03:53:08.0

**M1**

03:53:09.8 [sound of electronic tone consistent with steering stand alarm.]  
03:53:13.7

**AB-1?**

03:53:26.9 \* (let's) put it in (hand/there)? (is) puttin' it at five good?  
03:53:31.1

**CM**

03:53:31.0 yeah.  
03:53:31.6

**M1**

03:54:33.9 [sound of electronic tone consistent with steering stand alarm.]  
03:54:45.5

**?**

03:55:06.1 \* \* \*  
03:55:08.4

**AB-1?**

03:55:15.9 (right there/how ya doin').  
03:55:16.6

## Secondary and Electronic Communications



## Primary Communications

**3AEX?**

03:55:16.8

pretty shaky this morning.

03:55:

18.8

**CM**

03:55:20.7

you stand the twelve to four?

03:55:22.0

**3AEX?**

03:55:22.0

yep.

03:55:22.3

**CM**

03:55:24.5

you can't go up on deck.

03:55:26.3

**3AEX?**

03:55:26.7

yep.

03:55:27.0

**3AEX?**

03:55:28.8

you can come up on second deck though.

03:55:30.3

**CM**

03:55:30.4

that's what I was talkin' about.

03:55:31.6

**M1**

03:55:32.0

[sound of electronic tone consistent with steering stand alarm.]

03:55:36.6

**?**

03:55:32.5

\* \* \*

03:55:33.4

**3AEX?**

03:55:33.4

yeah.

03:55:33.7

## Secondary and Electronic Communications

## Primary Communications

**CM**

03:55:34.0

\* \* (walk around) \* \* (without a light). \* \* \*.

03:55:45.4

**3AEX?**

03:55:45.6

some of those cords got cut (in the) second deck.

03:55:49.2

**CM**

03:55:49.2

what cords?

03:55:50.0

**3AEX?**

03:55:49.9

uh the containers.

03:55:52.2

**CM**

03:55:52.3

the reefers?

03:55:52.7

**3AEX?**

03:55:52.5

yeah.

03:55:52.9

**3AEX?**

03:55:55.1

don't know if we're shortin' out down there \* \* \*.

03:55:56.8

**M1**

03:55:56.9

[sound of electronic tone consistent with steering stand alarm.]

03:56:00.1

**CM**

03:56:01.6

bet they do.

03:56:02.4

**M1**

03:56:06.8

[sound of electronic tone consistent with steering stand alarm.]

03:56:09.4

**M1**

03:56:16.0

[sound of electronic tone consistent with steering stand alarm.]

03:56:19.1

## Secondary and Electronic Communications

## Primary Communications

**M1**

03:56:39.8 [sound of electronic tone consistent with steering stand alarm.]  
03:56:41.0

**M1**

03:56:47.8 [sound of electronic tone consistent with steering stand alarm.]  
03:56:49.0

**M1**

03:56:57.9 [sound of electronic tone consistent with steering stand alarm.]  
03:56:59.0

**M1**

03:57:48.8 [sound of electronic tone consistent with steering stand alarm.]  
03:57:53.4

**CM**

03:57:55.2 \* \* .  
03:57:56.3

**AB-1**

03:57:56.7 \* can't come back.  
03:57:58.0

**CM**

03:57:58.8 \* can't come back \* \* .  
03:58:01.4

**CM**

03:58:08.3 (what'd you) (say/set)?  
03:58:09.3

**AB-1**

03:58:10.2 naw what I'm sayin' ? (it was) when (when it was raining) \* \* \* heading  
03:58:17.3 back to the course (then we just) \* \* .

**CM**

03:58:17.3 okay.  
03:58:17.7

**CM**

03:58:20.0 \* (gusts) a little little wind (just/let's) head up wind.  
03:58:23.2

## Secondary and Electronic Communications

## Primary Communications

### AB-1

03:58:50.2 how much longer of this?  
03:58:51.8

### CM

03:58:52.7 hours.  
03:58:53.4

### M1

03:59:21.9 [sound of electronic tone consistent with steering stand alarm.]  
03:59:26.7

### M1

03:59:44.3 [sound similar to hourly GPS alarm activating.]  
03:59:47.9

### M1

03:59:46.9 [sound of electronic tone consistent with steering stand alarm.]  
03:59:50.5

### M1

03:59:55.9 [sound of electronic tone consistent with steering stand alarm.]  
03:59:56.7

### M1

04:00:17.9 [sound of electronic tone consistent with steering stand alarm.]  
04:00:20.7

### M1

04:00:44.9 [sound of electronic tone consistent with steering stand alarm.]  
04:00:48.2

### M1

04:00:57.9 [sound of electronic tone consistent with steering stand alarm.]  
04:00:59.9

### M1

04:01:06.9 [sound of electronic tone consistent with steering stand alarm.]  
04:01:08.9

### M1

04:01:14.9 [sound of electronic tone consistent with steering stand alarm.]  
04:01:17.5

## Secondary and Electronic Communications

## Primary Communications

**M1**

04:02:42.9 [sound of electronic tone consistent with steering stand alarm.]  
04:02:45.5

**AB-1**

04:02:52.0 (mind) if I get some coffee?  
04:02:53.1

**CM**

04:02:53.8 go 'head.  
04:02:54.4

**M1**

04:02:56.0 [sound of electronic tone consistent with steering stand alarm.]  
04:03:00.2

**?**

04:03:18.3 [sound similar to clearing throat]  
04:03:18.8

**AB-1**

04:04:52.0 right to where we need to be at?  
04:04:53.7

**CM**

04:04:54.7 hmm?  
04:04:54.9

**AB-1**

04:04:55.6 are we where we need to be at? where the (check) to be at?  
04:04:58.2

**CM**

04:04:58.3 just a little bit to the right of our track here. see that purple line on the  
04:05:03.4 radar there.

**AB-1**

04:05:03.3 yeah.  
04:05:03.8

**CM**

04:05:03.8 we're steerin' up like thirty degrees into the wind.  
04:05:07.6

## Secondary and Electronic Communications

## Primary Communications

**CM**

04:05:11.1 still think we we're \*.  
04:05:12.4

**AB-1**

04:05:12.4 what's the gusts out there?  
04:05:13.6

**CM**

04:05:13.8 I don't have any idea. (we don't have any) instrument that can measure  
04:05:19.0 (it).

**AB-1**

04:05:45.0 captain ain't been up yet?  
04:05:46.5

**AB-1**

04:05:49.0 seen the captain up?  
04:05:50.1

**CM**

04:05:50.3 (hadn't/haven't) seen him.  
04:05:51.2

**CM**

04:05:52.7 the second mate said she called him.  
04:05:54.5

**CM**

04:06:06.7 \* \* forecast (here showin') \* \*.  
04:06:09.8

**AB-1**

04:08:10.5 okay.  
04:08:11.2

**CM**

04:09:33.3 hello there captain.  
04:09:34.4

**M1**

04:09:39.2 [unintelligible voices were heard not in vicinity of bridge microphone.]  
04:10:09.8

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**CAPT**

04:09:49.9  
04:09:50.3

yeah.

**?**

04:10:18.6  
04:10:21.9

\* \* \*.

**CAPT?**

04:10:22.2  
04:10:24.2

there's nothing bad about this ride.

**CM?**

04:10:24.4  
04:10:25.7

\* (not) sleepin' \* \*.

**CAPT?**

04:10:25.9  
04:10:27.4

sleepin' like a baby.

**CM?**

04:10:27.8  
04:10:28.5

not me.

**CAPT?**

04:10:29.3  
04:10:30.9

what? who's not sleepin' good?

**CAPT**

04:10:31.3  
04:10:32.9

(how) how come?

**CM**

04:10:33.1  
04:10:34.5

\* \* \*.

**CAPT**

04:10:34.7  
04:10:35.4

alright.

**CM**

04:10:35.1  
04:10:36.3

\* (didn't like it).

## Primary Communications

**AB-1?**

04:10:37.0

04:10:39.3

(I I could) tell one A-M the storm (comin') in.

**CAPT**

04:10:40.1

04:10:43.1

\* well this is every day in Alaska. this is what it's like.

**AB-1**

04:10:44.8

04:10:46.0

(those seas are for real).

**CM**

04:10:46.7

04:10:53.8

that's what I said when I walked up here I said this is uh– this is everyday in Alaska.

**CAPT**

04:10:49.7

04:10:51.1

a typical winter day in Alaska.

**CAPT**

04:11:01.5

04:11:02.4

we're not poundin'.

**CM**

04:11:02.6

04:11:04.4

that is what I said when I came up.

**CAPT**

04:11:04.0

04:11:04.4

yeah.

**?**

04:11:05.5

04:11:05.9

\* \* yeah.

**CM**

04:11:06.2

04:11:07.9

exactly my words. this is every day.

**?**

04:11:08.3

04:11:13.3

this is this is just like wind gusts \* \* \*.

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

04:11:13.2 roll. I mean we're not even rollin'. we're not even pitchin' we're not  
04:11:19.1 pounding.

**CM**

04:11:19.2 \* \* \* I lost nothing. the only thing I found was this little metal uh- battery  
04:11:27.6 (pack/bracket) in the stationary (room).

**CAPT**

04:11:27.7 (alright).  
04:11:28.2

**CAPT**

04:11:34.3 say again?  
04:11:35.2

**CM**

04:11:35.3 \* \* \* (start clearin') \* \* rollin' about the ship.  
04:11:40.0

**CAPT**

04:11:40.0 oh yeah.  
04:11:40.5

**AB-1**

04:11:53.3 I'm glad (I'm up here) \* \* car(go) (tank. fill it).  
04:11:57.0

**CAPT?**

04:11:57.0 \* (on the mike right now)? [A reference to the "Iron Mike" which is a  
04:11:58.8 slang term for the autopilot system.]

**CM**

04:11:59.0 (you on the) mike?  
04:12:00.0

**AB-1**

04:11:59.6 (yeah) mike. [Iron Mike]  
04:12:00.9

**?**

04:12:02.0 (you on the) mike?  
04:12:03.3

## Secondary and Electronic Communications

## Primary Communications

?  
04:12:03.0 \*  
04:12:03.8

**CM**  
04:12:04.2 I turned off the off course alarm.  
04:12:06.3

**CM**  
04:12:07.9 it was going off every five seconds. hearin' it ring- ring- ring- ring.  
04:12:13.3

**CM**  
04:12:14.7 we're headin' up into the (gusts) and (comin') back down ridin' through  
04:12:19.2 lot of rain \* (here).

**CAPT**  
04:12:19.5 yeah I can see that.  
04:12:20.5

**CAPT**  
04:12:22.0 it's not (workin'/worth it) \* \* rollin'.  
04:12:25.8

**CM**  
04:12:26.7 (I mean) we're we're I'm making good the course I want ya know. I  
04:12:33.7 wanna merge with the one-one-six.

**CAPT**  
04:12:33.5 ya.  
04:12:34.0

**CM**  
04:12:34.0 (we're settin').  
04:12:34.8

**CAPT**  
04:12:34.7 steer it up just steer in this direction right now.  
04:12:37.5

**CM**  
04:12:37.6 yes sir.  
04:12:38.5

## Secondary and Electronic Communications

## Primary Communications

**CM**

04:12:43.7 cap'n yeah we're goin' like this huh I'm guessin' it's on the port bow  
04:12:48.4 and...

**CAPT**

04:12:48.5 port side yeah.  
04:12:49.7

**CM**

04:12:49.5 (yeah/wind).  
04:12:50.1

**CAPT**

04:12:51.9 the only way to do a counter on this is to fill the port side ramp tank up.  
04:12:56.3

**CM**

04:12:56.6 \* \* \* (starboard to port) \* \* \* (no places for any others).  
04:13:03.2

**CAPT**

04:13:03.1 yeah.  
04:13:03.7

**CM**

04:13:05.0 heel is not bad.  
04:13:06.1

**CAPT**

04:13:06.1 huh?  
04:13:06.6

**CAPT?**

04:13:07.0 no- no- no (not at all) \* \* \*. \* \* the only thing I can conjure up.  
04:13:12.7

**CM**

04:13:21.6 no.  
04:13:22.3

**CM**

04:13:22.8 the third engineer did report some broken- uh- cords to refer  
04:13:29.5 containers we're not doin' anything about it.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

04:13:32.5

alright chief mate.

04:13:33.6

**CM**

04:13:33.2

I asked him about– uh– "how did you know that?" he came up and said it. I told @3AE last night ya know not to come up that ramp.

04:13:45.3

**CM**

04:14:14.3

\* basically have (that) \* \* \*.

04:14:19.5

**CAPT**

04:14:20.0

(oh) it's it's howling out there.

04:14:22.6

**CM**

04:14:24.6

(can't tell the) direction \* \*.

04:14:26.5

**?**

04:14:32.3

\*.

04:14:33.5

**CM**

04:14:34.6

(but) our forecast had it comin' around to starboard.

04:14:37.3

**CAPT?**

04:14:38.0

the wind?

04:14:38.9

**CM**

04:14:39.1

right.

04:14:39.6

**CAPT**

04:14:39.4

it will eventually.

04:14:40.6

**CM**

04:15:27.5

yeah. the (north face/\* \* ) is pretty low.

04:15:30.1

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

04:15:30.2

startin' to slow down?

04:15:31.7

**CM**

04:15:31.6

uhh I guess \* \* set (in/to) max.

04:15:35.1

**CM**

04:15:38.2

(I'll) have to call @2AE.

04:15:41.4

**CAPT**

04:15:41.0

alright.

04:15:41.8

**CM**

04:15:41.7

let me ask 'em.

04:15:43.6

## Secondary and Electronic Communications

**CAPT-ET**

04:15:59.2

good morning second– captain here.

04:16:01.1

**CAPT-ET**

04:16:01.7

how are ya?

04:16:02.6

**CAPT-ET**

04:16:03.4

how how ya guys doing (down there/now)?

04:16:05.3

**CAPT-ET**

04:16:07.1

yeah– well to be expected.

04:16:09.5

**CAPT-ET**

04:16:10.5

say uhh everything good as far as R-P-M goes?

04:16:13.8

**CAPT-ET**

04:16:19.0

perfect.

04:16:19.8

## Primary Communications

**CAPT**

04:16:25.5 blowin' tubes.  
04:16:26.5

**?**

04:16:28.3 yes.  
04:16:28.9

**CAPT**

04:17:42.7 it's (pourin'/blowin').  
04:17:43.9

**CAPT**

04:18:05.5 I'm just gunna drop down and get my glasses.  
04:18:07.6

**CM**

04:18:07.3 alright.  
04:18:07.9

**?**

04:20:38.4 \* \* \*.  
04:20:39.7

**CAPT**

04:21:16.2 it's probably better off we can't see anything chief mate.  
04:21:19.5

**CM**

04:21:20.8 naw I can see the spray though \* \* .  
04:21:22.7

**CAPT**

04:21:22.7 oh I see \* \* (ya).  
04:21:24.5

## Secondary and Electronic Communications

**CAPT-ET**

04:16:20.8 yeah. okay. that sounds good to me.  
04:16:22.9

**CAPT-ET**

04:16:23.1 thank you very much for the heads up.  
04:16:24.8

## Primary Communications

**CM**

04:21:30.0 probably just comin' out of the lee so \* \* \* .  
04:21:36.6

**CAPT**

04:21:36.7 yeah but from— from here it's all down hill as far as— the uh low  
04:21:51.0 (pressure system). it's not (gunna/trackin') \* \* \* (northwest) like a (normal  
low) \* \* \* .

**CM**

04:21:55.2 (haven't gotten uh/how we're getting) (mail/new) update right?  
04:21:58.4

**CAPT**

04:22:00.3 say again?  
04:22:01.0

**CM**

04:22:01.2 haven't got any more email (to forward) \* \* \* .  
04:22:03.8

**CAPT**

04:22:03.9 naw \* \* \* .  
04:22:10.6

**CAPT**

04:23:13.2 sounds a lot worse up here.  
04:23:15.0

**CAPT**

04:23:16.0 hear anything down (in your room at all)?  
04:23:18.7

**CM**

04:23:20.4 we're not (gunna/gettin') \* \* \* .  
04:23:23.2

**?**

04:23:24.6 \* \* \* .  
04:23:28.7

## Secondary and Electronic Communications

## Primary Communications

?

04:23:31.4  
04:23:33.4

\* \* \*

**CM**

04:24:00.5  
04:24:02.3

we're at nine-seventy now.

**CAPT**

04:24:05.7  
04:24:06.3

now?

**CM**

04:24:07.3  
04:24:10.2

\* \* nine-fifty.

**CM**

04:24:16.4  
04:24:20.1

think it's gunna go down (before it goes up).

**CAPT**

04:24:21.2  
04:24:22.1

that's the eye.

**CM**

04:24:22.4  
04:24:22.7

right.

**CAPT**

04:24:23.3  
04:24:25.1

we won't be goin' through the eye.

**M1**

04:24:29.8  
04:24:36.4

[An unintelligible conversation took place not in the vicinity of a bridge microphone.]

**CM**

04:24:52.1  
04:24:53.0

captain.

**CM**

04:24:56.6  
04:24:57.4

captain.

## Secondary and Electronic Communications



**Primary Communications**

**Secondary and Electronic Communications**

**CAPT**

04:24:57.4

yeah.

04:24:58.1

**CM**

04:26:04.6

that door leaks?

04:26:05.6

**AB-1?**

04:26:05.8

\* \* .

04:26:06.9

**CM**

04:26:06.8

that door leaks. that window \* (that's all). (there's nothing to do I'm just sayin') you can hear the (wind though/window).

04:26:14.0

**CAPT**

04:27:05.0

\* blowin' tubes?

04:27:06.8

**CM**

04:27:06.9

\* \* \* .

04:27:08.3

**CAPT**

04:27:07.2

ya.

04:27:07.5

**CAPT**

04:27:08.3

yeah.

04:27:08.8

**CAPT**

04:27:09.9

\* come up.

04:27:11.1

**CM**

04:27:13.3

no we're at a hundred now.

04:27:14.6

**CAPT**

04:27:15.6

ya.

04:27:16.0

## Primary Communications

**CM**

04:27:57.1 (shoulda/shouldn't) (been/they) be comin' up a little bit faster?  
04:28:00.1

**CAPT**

04:28:00.2 I don't know tell 'em bring it up.  
04:28:02.2

**CM**

04:28:02.7 we'll just feel how she can do.  
04:28:04.7

**CAPT**

04:28:04.8 right now we're poundin' a little bit because we're goin more easterly–  
04:28:26.0 (ya know) we're holding (our/that) \* right rudder. um gotta let her get up  
to speed. get a little bit more (more/toward) our course. not \* too much.  
need the R-P-Ms.

**AB-1**

04:28:42.0 what are we doin'– chippin' on deck this morning? [sarcastic reference  
04:28:44.1 to chipping ice off the deck of a ship.]

**CAPT**

04:28:43.8 yup. up forward.  
04:28:45.3

**CAPT**

04:28:45.7 you are. [exclaimed with some laughter]  
04:28:47.3

**CM**

04:33:05.7 this might be as high as it's gunna go.  
04:33:08.6

**CAPT**

04:33:09.9 the R-P-M?  
04:33:10.8

**CM**

04:33:10.8 \* \*  
04:33:11.6

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

04:33:11.3

04:33:13.0

yeah. that might possibly be it.

**CM**

04:33:15.3

04:33:23.1

(yeah) well I'm gunna (disable) \* this \*\* (remind them) \* the weather decks are secure \* \* \*.

**CM**

04:34:24.5

04:34:28.8

\* \* \* (an) idiot \* \* \*.

**CAPT**

04:34:28.9

04:34:29.2

yeah.

**CM**

04:34:29.2

04:34:31.4

\* \* \*.

**CAPT**

04:34:38.3

04:34:40.7

I think we should see how the galley made out.

## Secondary and Electronic Communications

**CM-ET**

04:34:03.3

04:34:04.6

hello @2AE it's @CM.

**CM-ET**

04:34:05.5

04:34:18.7

hey listen it– uh– it should go without saying the weather decks are secured but I want to just make sure you wrote it down because– uh– the third came up from the second deck on his way when he got off watch and we don't want anyone else doin' that.

**CM-ET**

04:34:19.7

04:34:20.9

roger that.

**CM-ET**

04:34:21.3

04:34:21.9

thank you.

## Primary Communications

**CAPT**

04:34:44.6

gunna take a walk down there.

04:34:45.9

**CM**

04:34:46.1

roger captain.

04:34:46.8

**CAPT**

04:34:47.3

be back up.

04:34:48.2

**CM**

04:34:48.7

(I'll) be here.

04:34:49.5

**?**

04:35:45.8

('kay).

04:35:46.2

**M1**

04:36:21.6

[sound similar to paper being torn.]

04:36:21.6

## Secondary and Electronic Communications

**M1/M2**

04:35:41.8

[sound of SAT-C terminal receiving incoming message.]

04:36:16.5

**M1/M2**

04:35:55.3

[sound of SAT-C terminal printer printing.]

04:36:15.7

**M1**

04:36:31.6

[sound of electric telephone ringing.]

04:36:33.9

**CM-ET**

04:36:35.7

bridge.

04:36:36.2

**CM-ET**

04:36:38.0

hello.

04:36:38.7

## Primary Communications

**CM-ET**

04:36:39.6

04:36:40.0

**CM-ET**

04:36:47.1

04:36:49.6

**CM-ET**

04:36:57.5

04:37:00.1

**CM-ET**

04:37:06.3

04:37:07.1

**CM-ET**

04:37:08.5

04:37:09.1

**CM-ET**

04:37:14.2

04:37:20.8

**?-ET?**

04:37:22.6

04:37:23.6

**CM-ET**

04:37:27.7

04:37:29.1

**CM-ET**

04:37:34.1

04:37:36.2

**CM-ET**

04:37:38.6

04:37:39.4

**M1**

04:39:38.2

04:39:40.3

## Secondary and Electronic Communications

yes.

container where? the second deck? \*.

okay I've got on the second deck in front of the house.

trailer.

leaning over.

okay. yeah. we had uh we had \* \* @3AE2 (and) he was out on second deck.

\* (second's secure).

yeah we're heelin' over \*.

I'll pass it on to the captain.

\* the galley.

[sound of electric telephone ringing.]

## Primary Communications

## Secondary and Electronic Communications

<b>CM-ET</b> 04:39:41.3 04:39:42.1	bridge. chief mate.
<b>CM-ET</b> 04:39:43.4 04:39:43.9	yes.
<b>CM-ET</b> 04:39:52.2 04:39:52.8	(yeah) okay.
<b>CM-ET</b> 04:39:54.6 04:39:56.6	uh we will get the captain.
<b>CM-ET</b> 04:40:01.2 04:40:01.5	okay.
<b>CM-ET</b> 04:40:05.8 04:40:06.7	I understand you.
<b>CM-ET</b> 04:40:09.2 04:40:09.8	'kay.
<b>CM-ET</b> 04:40:13.2 04:40:14.1	understand you.
<b>CM-ET</b> 04:40:14.9 04:40:15.2	alright. [Above ET call ended, CM then called the CAPT on a new ET call below.]
<b>CM-ET</b> 04:40:33.7 04:40:54.3	captain– chief mate. the chief engineer just called and (then/they) called back again (yeah) something about the list and oil levels * * *.

## Primary Communications

**AB-1**

04:41:11.3

04:41:13.1

\* \* \*

**CM**

04:41:22.9

04:41:25.0

\* (lookin') (fore/four) deck.

**CM**

04:41:28.3

04:41:30.6

can't even see the (level/bubble).

**CAPT**

04:42:53.6

04:42:54.3

alright.

**CAPT**

04:42:58.9

04:42:59.6

that was the chief?

**CM**

04:42:59.9

04:43:00.8

that was the chief.

**CAPT**

04:43:01.0

04:43:02.6

down in the engine room?

**CM**

04:43:02.1

04:43:02.7

yes sir.

## Secondary and Electronic Communications

**CAPT-ET**

04:43:11.4

04:43:13.8

hey second– captain here. is the chief around?

**CAPT-ET**

04:43:16.1

04:43:16.5

okay.

**CAPT-ET**

04:43:18.4

04:43:19.2

I'm on the bridge.

## Primary Communications

**CAPT**

04:43:22.4  
04:43:24.0

gunna steer right up (in to it).

**CAPT**

04:43:25.8  
04:43:28.7

wants to take the list off. so let's put it in hand steering.

**CM**

04:43:28.9  
04:43:29.5

okay.

**CM**

04:43:31.4  
04:43:32.2

Mister @AB-1.

**CM**

04:43:33.5  
04:43:35.0

go into hand.

**M1**

04:43:37.1  
04:43:37.7

[sound of electronic tone consistent with steering stand alarm.]

**CM**

04:43:38.3  
04:43:39.3

rudder at midship.

**CM**

04:43:39.3  
04:43:42.0

captain do you wanna make \* \* \*?\*

## Secondary and Electronic Communications

**CAPT-ET?**

04:43:20.4  
04:43:21.0

(howlin'/@2AE/@3AE1). [2AE's first name and 3AE-1's last name are similar sounding.]

**M1**

04:43:40.2  
04:43:42.1

[sound of electric telephone ringing.]

**CAPT-ET**

04:43:43.7  
04:43:44.2

captain.



**Primary Communications**

**CM**  
04:43:58.4 looks like we can head up real fast.  
04:44:00.5

**CM**  
04:44:05.6 keep it right ten.  
04:44:06.7

**CM**  
04:44:13.6 just like this.  
04:44:14.9

**CM**  
04:44:15.5 \* \* (now it's in hand) go ahead and bring it around a little bit \* \* \* .  
04:44:20.6

**?**  
04:44:27.8 \* \* \* .  
04:44:29.7

**CAPT**  
04:44:49.4 \* \* just the list. the sumps are actin' up \* . to be expected.  
04:44:56.4

**Secondary and Electronic Communications**

**CAPT-ET**  
04:43:45.6 how are you? you want us to take the list off a little  
04:43:47.8 bit?

**CAPT?-ET?**  
04:43:53.0 \* \* \* .  
04:43:54.7

**CAPT-ET**  
04:44:07.4 okay.  
04:44:07.8

**CAPT-ET**  
04:44:11.1 that's good.  
04:44:11.9

**CAPT-ET?**  
04:44:25.3 alright. shut her down.  
04:44:26.6

## Primary Communications

**CM**

04:44:56.5

yeah the oil sumps I understand.

04:44:58.3

**?**

04:45:02.4

\* \* \*.

04:45:04.4

**CM**

04:45:06.1

I'm goin' right ten. (just keep) watchin' the (helm/head).

04:45:09.3

**CAPT**

04:45:08.6

yeah.

04:45:09.3

**CAPT**

04:45:09.9

just steer that heading right there the best you can. that'll work for us.

04:45:13.6

**CM**

04:45:13.6

okay. steer zero-six-five.

04:45:16.0

**AB-1**

04:45:16.1

zero-six-five.

04:45:17.7

**CM**

04:45:17.8

(yeah. okay).

04:45:18.5

**CM**

04:45:25.8

down to nine sixty millibars.

04:45:28.0

**CAPT**

04:45:28.1

heyyy. [dramatically exclaimed]

04:45:28.4

**CM**

04:45:31.0

(almost) there.

04:45:32.0

## Secondary and Electronic Communications

## Primary Communications

**CAPT?**

04:45:36.7

04:45:37.9

\* \* \*

**CM**

04:45:50.9

04:45:52.3

there he is.

**M1**

04:45:52.3

04:45:58.5

[sound similar to metal curtain wheels on a metal curtain track moving rapidly as if with the motion of the ship.]

**AB-1?**

04:45:54.6

04:45:55.4

wooo. [dramatically exclaimed, almost similar to a yell]

**CM**

04:46:01.3

04:46:02.2

(alright).

**CAPT**

04:46:03.4

04:46:04.1

(alright).

**CM?**

04:46:28.2

04:46:30.5

now swingin' right pretty fast.

**CAPT?**

04:46:32.5

04:46:33.5

(\* alright/still right).

**CAPT**

04:46:36.9

04:46:38.8

steer that course if you can.

**CM**

04:46:48.2

04:46:51.1

are you takin' the conn? \* \* \* (./?)

**CAPT**

04:46:51.4

04:46:53.1

alright. master has the conn.

## Secondary and Electronic Communications

## Primary Communications

**CM**

04:46:52.9

captain has the conn.

04:46:54.5

**CAPT**

04:47:33.9

go left ten.

04:47:35.4

**CAPT?**

04:47:36.4

left ten \*.

04:47:37.5

**CAPT**

04:48:14.7

midship.

04:48:15.2

**AB-1**

04:48:15.4

midship.

04:48:15.7

**CAPT**

04:48:56.7

right twenty.

04:48:57.7

**AB-1**

04:48:58.0

right twenty.

04:48:58.7

**CAPT**

04:48:58.6

(there's/shift) hard right.

04:49:00.6

**CAPT**

04:49:03.3

yep.

04:49:03.7

## Secondary and Electronic Communications

**M1/M2**

04:46:55.7

[sound of SAT-C terminal receiving incoming message.]

04:47:07.1

**M1/M2**

04:47:13.7

[sound of SAT-C terminal printer printing.]

04:47:55.1

## Primary Communications

**AB-1**

04:49:04.7 rudder's right (twenty).  
04:49:06.2

**CAPT**

04:49:06.3 it's hard right @AB-1.  
04:49:07.7

**CAPT**

04:49:41.0 feel the pressure droppin' in your (ears) just then? feel that?  
04:49:44.3

**CM**

04:49:44.5 \* got a door open.  
04:49:46.1

**CAPT**

04:49:46.9 might just be the uhh...  
04:49:48.7

**AB-1**

04:49:49.1 rudder's right twenty.  
04:49:50.5

**CAPT**

04:49:50.8 okay. hold that right there.  
04:49:52.6

**CAPT**

04:50:07.3 midship.  
04:50:08.0

**AB-1**

04:50:08.1 midship.  
04:50:08.7

**CAPT**

04:50:17.2 (huh)?  
04:50:17.8

**CAPT**

04:50:40.5 (wanna/why don't ya) see if you can steer that course right there. zero-  
04:50:43.5 six-zero.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

04:50:44.7

our heading can't be over \* \* \*.

04:50:47.8

**CAPT**

04:50:51.0

take your time and relax \* \*.

04:50:52.6

**AB-1**

04:50:53.5

\* \* \*.

04:50:54.5

**CAPT**

04:50:54.6

don't worry about it.

04:50:55.7

**M1**

04:52:00.3

[An unintelligible conversation between two or more individuals not near a bridge mounted microphone.]

04:52:06.6

**CAPT**

04:52:23.2

stand up straight and relax.

04:52:25.1

**AB-1**

04:52:26.1

I'm relaxed captain.

04:52:27.5

**CAPT**

04:52:28.3

\* \* \* relax \* \* \* steer the direction (we're goin').

04:52:33.8

**CAPT**

04:52:36.9

it's only \* \* \*.

04:52:41.2

**CAPT**

04:52:56.3

did we lose a container or something'? a trailer down on two deck?

04:53:00.4

**CM**

04:53:00.2

he said one was leaning over. one of the trailer's on second deck.

04:53:03.9

## Secondary and Electronic Communications

**Primary Communications**

**Secondary and Electronic Communications**

**CAPT**

04:53:04.2  
04:53:04.7

yeah.

**CAPT**

04:53:05.8  
04:53:07.7

(you/that) alright?

**AB-1?**

04:53:10.0  
04:53:10.7

[sound of chuckling]

**?**

04:53:12.9  
04:53:14.5

\* \* \*.

**CAPT**

04:53:18.3  
04:53:19.0

(now).

**CM**

04:53:27.8  
04:53:29.5

I'm gunna plot this. \* \*.

**CAPT**

04:53:30.5  
04:53:31.3

(go ahead).

**CAPT**

04:53:38.9  
04:53:41.1

\* \* (keep/kick) that (radar on there).

**?**

04:55:18.7  
04:55:28.3

[An unintelligible conversation between two or more individuals not near a bridge mounted microphone. The phrase "lookin' at" was detected.]

**CM**

04:55:59.9  
04:56:01.2

nine-sixty-one.

## Primary Communications

**CAPT**

04:56:01.8

what?

04:56:02.3

**CM**

04:56:02.6

nine-sixty-one.

04:56:03.6

**AB-1?**

04:56:03.8

(what's happening/what's that mean)?

04:56:05.0

**CAPT**

04:56:05.3

what's up?

04:56:06.0

**CAPT**

04:56:51.9

there ya go buddy \* \* .

04:56:54.0

**CAPT**

04:57:07.2

\* \* \* .

04:57:11.3

**CAPT**

04:57:15.7

okay we're in hand steering.

04:57:17.3

**CM**

04:57:18.6

hand steering.

04:57:19.3

**CAPT**

04:57:19.7

zero-five-zero. steer in that general direction.

04:57:25.1

**CM**

04:57:21.0

zero-five-zero.

04:57:22.3

**CM**

04:57:22.8

zero-five-zero. \* .

04:57:23.9

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

04:57:46.7 gunna check real quick and see if I got any messages then I'll be back  
04:57:50.5 up.

**CM**

04:57:50.1 yes sir.  
04:57:50.8

**?**

04:58:51.4 \* \* \*  
04:58:53.1

**CM**

04:59:17.6 hangin' in there @AB-1?  
04:59:18.7

**AB-1**

04:59:18.7 \* \* \*  
04:59:20.3

**CM**

04:59:20.3 (still/got us) on course you're doin' great.  
04:59:22.5

**M1**

04:59:45.8 [sound similar to hourly GPS alarm activating.]  
04:59:52.8

**CM**

04:59:48.0 \* \* it.  
04:59:49.0

**CM**

05:00:59.7 (startin') to look (better).  
05:01:01.5

**CM**

05:01:02.0 expecting the wind to come around here to the bow and then to the  
05:01:18.9 starboard side. I can still– I can still see the spray foam to the  
starboard. we're still heelin'.

## Secondary and Electronic Communications

## Primary Communications

**CM**

05:01:33.8 it'll look better (in the) daylight.  
05:01:38.4

**CAPT**

05:02:42.9 mate is this (synched up) with the most (recent broadcast)?  
05:02:47.6

**CM**

05:02:47.1 yes sir.  
05:02:48.2

**CM**

05:02:48.2 I uh– saved the five o'clock real quick so I could plot it once you got up  
05:02:53.6 here.

**CAPT**

05:02:53.4 yup.  
05:02:54.1

**CM**

05:02:56.2 you want to take this and I'll be back. (we're on) zero-five-zero  
05:03:01.1

**CAPT**

05:03:00.5 zero-five-zero aye.  
05:03:02.2

**CAPT**

05:03:02.9 sounds a whole lot worse up here.  
05:03:06.8

**AB-1**

05:03:06.8 I know.  
05:03:08.2

**CM**

05:03:08.7 but I'm watchin' millibars (come up) \* \* \*.  
05:03:13.7

**CAPT**

05:03:14.6 watchin' the (what)?  
05:03:16.5

## Secondary and Electronic Communications

## Primary Communications

**CM**

05:03:15.6 millibars.  
05:03:16.7

**CAPT**

05:03:16.0 come up?  
05:03:16.7

**CM**

05:03:16.7 and just for the (fun of it)– that cursors on twenty-three point four–  
05:03:29.1 seventy-three point seven– looks like there's actually (a sailing vessel)  
\* \* \*

**CAPT**

05:03:30.8 That– that's fine– but here's the thing– you got two G-P-Ss– you got  
05:03:54.8 five G-P-Ss– you gunna get five different positions. you got one  
weather program (and I use/and use) B-V-S and that's what I (sent) up  
here \* we're gettin' conflicting reports as to where the center of the  
storm is.

**CM?**

05:03:48.1 \* \*  
05:03:49.6

**CAPT**

05:03:49.2 by all means– take a peek (bring) up the weather (again). said the  
05:03:54.8 barometer's comin' back up?

**CM**

05:03:55.0 yes– \*-six-zero \* and its (now/still) (nine-six-zero/nine-sixty).  
05:03:59.1

**CAPT**

05:03:55.6 (comin' up)?  
05:03:56.9

**?**

05:04:01.2 \* \* \*  
05:04:13.0

**CAPT**

05:04:15.8 let's put (the rudder) hard right.  
05:04:19.6

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

05:04:19.5

hard right.

05:04:20.4

**CAPT**

05:04:23.5

go hard right.

05:04:24.7

**AB-1**

05:04:25.0

rudder is hard right.

05:04:27.4

**CAPT**

05:04:49.2

\* \* right.

05:04:51.4

**CAPT**

05:04:52.0

ease up right twenty.

05:04:53.8

**AB-1**

05:04:53.4

(ease) to (twenty).

05:04:55.8

**AB-1**

05:04:57.1

rudder's right twenty.

05:04:58.8

**CAPT**

05:04:58.2

okay.

05:04:58.6

**CAPT**

05:05:05.4

our biggest enemy here right now is we can't see.

05:05:08.8

**CAPT**

05:05:13.6

that's our biggest enemy.

05:05:15.4

**CAPT**

05:06:00.3

(come) \* \* \* (tryin' to get on) our course.

05:06:05.8

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:06:42.2 now we're on the back side of the storm.  
05:06:46.4

**?**

05:06:45.5 \* \* \*  
05:06:49.7

**?**

05:07:11.9 \* \* \*  
05:07:13.9

**M1**

05:09:38.2 [sound of object being moved, possibly a curtain.]  
05:09:39.9

**AB-1**

05:09:40.9 \* doin over there?  
05:09:42.6

**?**

05:09:47.8 [sound of laugh]  
05:09:48.7

**?**

05:09:49.8 \* \* \*  
05:09:52.8

**?**

05:09:52.3 doin' good?  
05:09:53.2

**AB-1**

05:09:53.1 yeah (it does/dog)  
05:09:54.9

**CAPT**

05:10:12.0 (this) is this what it's like everyday in Alaska?  
05:10:15.6

**CM**

05:10:14.8 yea- you get seventy days of this # up there.  
05:10:17.4

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:10:17.6

hey (handsome).

05:10:18.2

**CM**

05:10:18.9

so when he came up at four \* \* this was gunna be everyday.

05:10:23.0

**CAPT**

05:10:23.3

naw it's not gunna be everyday. every other day.

05:10:28.1

**CM**

05:10:28.5

yeah– if you get a break in (Cook Inlet) right?

05:10:31.6

**CM?**

05:10:31.5

at least there's a lee.

05:10:32.4

**SUP-1**

05:10:34.8

yeah it's a good shakedown cruise.

05:10:37.1

**SUP-1**

05:10:37.9

(so) what's (wind / \* ) speed?

05:10:39.6

**CM**

05:10:39.4

see if any buttons failed.

05:10:40.8

**SUP-1**

05:10:40.7

gunna (look the cable looks) down the on second deck by the bunker

05:10:47.1

station (things are) slappin' around.

**SUP-1?**

05:10:51.1

what's the wind speed?

05:10:53.0

**CAPT**

05:10:52.6

we don't know. we don't have (any) anemometer.

05:10:57.4

## Secondary and Electronic Communications

## Primary Communications

**SUP-1?**

05:10:56.2  
05:10:57.7

\* \* \* .

**?**

05:10:57.8  
05:11:07.1

\* \* make sure I get my bearings \* \* \* (my) course \* \* \* numbers right.

**CAPT**

05:11:07.3  
05:11:07.9

(hard) over.

**?**

05:11:09.0  
05:11:11.2

\* \* \* .

**AB-1**

05:11:09.3  
05:11:10.4

it \*

**CM**

05:11:12.7  
05:11:13.7

that's what (it said).

**SUP-1**

05:11:13.6  
05:11:14.0

really?

**CAPT**

05:11:15.0  
05:11:15.6

(went over/hard over).

**CAPT**

05:11:17.7  
05:11:30.8

there's not much to see. ya know that's our biggest enemy. we don't have no visibility ya know. generally try to steer in the direction we need to go.

**SUP-1?**

05:11:18.8  
05:11:20.0

(alright).

## Secondary and Electronic Communications

## Primary Communications

### SUP-1

05:11:21.9 yeah.  
05:11:22.5

### SUP-1

05:11:30.0 sure.  
05:11:30.5

### CAPT

05:11:31.1 now (how– how) is this list?  
05:11:33.2

### SUP-1

05:11:33.2 I've never seen it list like this– you gotta be takin' more than a container  
05:11:38.9 stack \* I've never seen it hang like this.

### CAPT

05:11:39.5 (never?)– we certainly have the sail area.  
05:11:42.4

### SUP-1

05:11:41.8 yeah (happened last night/had the list I didn't) think it was seven.  
05:11:43.9

### CAPT

05:11:44.0 how does that affect below your operations as far as lube oil(s) and \*.  
05:11:50.3

### SUP-1

05:11:50.3 (you hit) the low pressure alarm on the lube oil \* \* \* (stuck) \* \* \* level of  
05:12:01.5 the engine \* \* \*.

### SUP-1

05:12:08.5 never even seen it hang like that before.  
05:12:10.5

### CAPT

05:12:11.2 yeah \* \* you got a lot of sail area.  
05:12:13.2

### SUP-1

05:12:12.9 yeah.  
05:12:13.4

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

05:12:21.8  
05:12:24.7

so we haven't really pounded at all.

**SUP-1**

05:12:24.7  
05:12:25.6

no- that's- that's...

**CAPT**

05:12:25.9  
05:12:29.6

(we we) a couple- (but todays \* though) we're not pounding.

**SUP-1**

05:12:30.0  
05:12:31.0

no- no.

**SUP-1**

05:12:33.0  
05:12:37.2

(# it)- (we'll pull) the (red) (brick/fricken) (pin) \*.

**CAPT**

05:12:35.5  
05:12:36.9

[sound of chuckling]

**SUP-1**

05:12:40.8  
05:12:43.2

(naw) it's- it's like whiteout out there.

**CAPT**

05:12:43.2  
05:12:50.4

yeah just all this spray and rain you got lightning and...

**SUP-1**

05:12:51.0  
05:12:52.1

maintaining speed?

**CAPT**

05:12:52.7  
05:12:54.3

eleven.

**SUP-1**

05:12:54.5  
05:12:55.9

\* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:12:55.9  
05:13:02.4

no \* \* little over a hundred. \* \* whatever they (do)– don't pull that \*.

**SUP-1**

05:12:58.4  
05:12:58.8

yup.

**CM?**

05:13:04.6  
05:13:05.4

i'll get it.

**AB-1**

05:13:05.5  
05:13:06.4

bridge phone.

**AB-1/SUP-1**

05:13:09.7  
05:13:13.7

\* \* \*. [background conversation possibly between AB-1 and SUP-1.]

**AB-1?**

05:13:28.8  
05:13:30.8

go 'head go 'head go 'head

## Secondary and Electronic Communications

**M1**

05:13:02.6  
05:13:04.5

[sound of electric telephone ringing.]

**CAPT-ET**

05:13:08.3  
05:13:09.4

bridge captain. [on ET]

**CAPT-ET**

05:13:14.3  
05:13:17.6

I'm tryin' to (get her steadied up).

**CAPT-ET**

05:13:26.3  
05:13:26.7

okay.

**CAPT-ET**

05:13:33.5  
05:13:36.7

(now) we got a lot a sail area.

## Primary Communications

**M1**

05:13:37.9 [An unintelligible conversation. It could not be determined if it was a  
05:13:50.7 background conversation on the bridge or the captain on the electric  
telephone.]

**AB-1**

05:14:19.3 still right twenty (captain) \* \* .  
05:14:22.3

**CAPT**

05:14:22.2 alright \* \*  
05:14:22.7

**CAPT**

05:14:25.2 put your rudder amidships.  
05:14:28.2

**AB-1**

05:14:27.4 amidships \* \* .  
05:14:28.6

**SUP-1**

05:14:43.1 \* \* cargo \* mess.  
05:14:47.7

**CAPT**

05:14:47.6 \* \* I don't even wanna (think) \* \* .  
05:14:50.4

## Secondary and Electronic Communications

**CAPT-ET**

05:13:44.8 (right).  
05:13:45.9

**CAPT-ET**

05:13:51.8 give me a call in a little bit \* \* \* .  
05:13:54.4

**CAPT**

05:14:03.0 \* \* \* .  
05:14:05.8

## Primary Communications

**SUP-1**

05:14:49.6

[sound of chuckle]

05:14:51.2

**CAPT**

05:14:51.8

put your rudder left ten– we're gunna steer up into it a little (bit) now.

05:14:56.5

**AB-1**

05:14:56.9

\* \* rides (pretty/very) well on the (northeast/course east).

05:15:01.4

**CAPT**

05:14:59.9

yup.

05:15:00.7

**SUP-1**

05:15:01.6

(its) still makin' \* \* \*.

05:15:05.6

**SUP-1**

05:15:05.2

(does/is) @CE have a problem?

05:15:07.3

**CAPT**

05:15:07.7

uh its @CE– you know he's got a problem like you said a low level.

05:15:14.0

**SUP-1**

05:15:11.8

yeah.

05:15:12.5

**SUP-1**

05:15:21.6

\* \* \* (a good look/take a look) \* \* \*.

05:15:28.2

**CAPT**

05:15:28.7

midship.

05:15:30.0

**AB-1**

05:15:30.1

midship.

05:15:30.9

## Secondary and Electronic Communications

## Primary Communications

### CAPT

05:15:33.5 mister @AB-1 stand up hold on to that handle just relax everything's  
05:15:39.4 gunna be just fine good to go buddy. you're good to go.

### AB-1

05:15:39.4 yeah okay.  
05:15:40.2

### CAPT

05:15:48.9 (why don't/want 'chu) you come left– steer zero-six-zero.  
05:15:52.1

### CAPT

05:16:07.2 it sounds so much worse up here.  
05:16:09.9

### SUP-1

05:16:09.1 yeah.  
05:16:09.9

### CAPT

05:16:09.8 when you get down (below) (it's just a lullaby) \* \* \*.  
05:16:16.0

### SUP-1

05:16:13.0 yeah.\* \* \*.  
05:16:13.6

### CAPT

05:16:22.1 (we're comin' left/put your rudder left) zero-five-zero.  
05:16:26.3

### AB-1

05:16:25.4 roger captain.  
05:16:26.2

### CAPT

05:16:39.3 yeah it's– it's the pounding that gets me. you– you know it's (justice/just  
05:16:44.5 this) \* \* \*.

### SUP-1

05:16:44.7 (when I was) \* \*(the company) \* (once in a while) \* (you get circulation  
05:16:50.5 issues).

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:16:47.2

yeah.

05:16:47.5

**CM**

05:16:54.7

\* \* \*

05:16:57.0

**CAPT**

05:16:57.1

\* \* it's noisy. (if you're going down bring some/the) weather up.

05:17:02.6

**CM**

05:17:01.4

yes sir.

05:17:02.2

**CAPT**

05:17:02.1

alright. do you see what I see?

05:17:04.0

**CM**

05:17:04.3

yes.

05:17:05.4

**CM**

05:17:05.9

(the band I see) is to the north of us.

05:17:08.6

**CAPT**

05:17:08.5

correct.

05:17:09.0

**CAPT**

05:17:11.7

\* \* \* (around the stack).

05:17:14.1

**M1**

05:17:56.8

[An unintelligible conversation took place between two or more unidentified individuals not near a microphone.]

05:18:06.5

**M1**

05:18:27.0

[An unintelligible conversation took place between two or more unidentified individuals not near a microphone.]

05:18:33.6

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:18:37.1 only gunna get better from here.  
05:18:39.1

**CM**

05:18:38.5 yup  
05:18:39.0

**CAPT**

05:18:39.4 we're on the back side of it.  
05:18:41.8

**SUP-1**

05:18:40.5 nice  
05:18:41.0

**CAPT**

05:18:42.1 this (weather) at this time— at this (ferocity/velocity) all \* \* all \* \*.  
05:18:52.6

**CM**

05:18:49.6 really?  
05:18:50.1

**CM?**

05:18:54.0 heading on (angle/eight).  
05:18:55.6

**CM**

05:18:55.6 \* \* yeah \* \* (eighteen) degree list on \* \* \*.  
05:19:00.4

**SUP-1**

05:19:04.3 I'm gunna get those (hand rails) today.  
05:19:07.0

**CAPT**

05:19:08.1 (naw) \* nobody's working today.  
05:19:010.0

**SUP-1**

05:19:09.5 no. I'm gunna give @UNK the day off.  
05:19:12.1

## Secondary and Electronic Communications

## Primary Communications

**CM**

05:19:35.1 yeah captain I think this rides better.  
05:19:38.0

**CAPT**

05:19:38.1 we agree. waitin' for that wind wind to shift. it's awful \* \* \*.  
05:19:47.8

**CM**

05:19:41.4 yeah. yup.  
05:19:43.4

**?**

05:19:59.4 hey (captain).  
05:20:00.6

**CAPT**

05:20:26.8 (what's our) course?  
05:20:28.6

**AB-1**

05:20:28.4 zero-five-zero.  
05:20:29.1

**CAPT**

05:20:29.4 okay.  
05:20:29.9

**?**

05:20:37.3 (ridin') \* \* \*.  
05:20:40.1

**M1**

05:21:00.3 [An unintelligible conversation took place between two or more  
05:21:19.3 unidentified individuals not near a microphone.]

**CAPT**

05:21:45.6 right now I'm just (waitin' for wind shift).  
05:21:48.1

**SUP-1**

05:21:47.9 yup.  
05:21:48.2

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

05:22:00.7  
05:22:06.2

(I) figured it would be really # between two and eight o'clock.

**SUP-1**

05:22:06.2  
05:22:07.2

right on the money.

**CAPT**

05:22:07.3  
05:22:16.7

that's what's forecast on B-V-S that's (our) weather system so we're goin' \* \* \* . (get on the other side/be around the south side).

**SUP-1**

05:22:17.5  
05:22:18.8

yup– yup.

**CAPT**

05:22:23.0  
05:22:25.6

what's the barometer doin' now @CM?

**CM**

05:22:25.6  
05:22:28.1

nine fifty (one).

**SUP-1**

05:23:33.0  
05:23:36.2

how fast that storm movin'. pretty quick?

**CAPT**

05:23:36.1  
05:23:39.5

that's just it– it's not.

**SUP-1**

05:23:39.6  
05:23:43.0

it's stalled right there. (is it)?

**CAPT**

05:23:43.0  
05:23:48.1

(yeah) only uh a couple knots– five knots.

**CM**

05:23:48.7  
05:23:53.4

the last one I saw said the movement was four-zero. four knots.

## Secondary and Electronic Communications

## Primary Communications

### SUP-1

05:23:53.1 oh.  
05:23:53.4

### CAPT

05:23:54.6 it's not much of a very \* \* \* .  
05:23:57.7

### CM

05:23:57.0 just sitting there.  
05:23:58.5

### M1

05:23:59.3 [An unintelligible conversation took place between CAPT, CM and  
05:24:12.3 possibly SUP-1 not near a microphone.]

### CAPT

05:25:29.1 get this stuff in Alaska?  
05:25:31.1

### CM

05:25:31.6 yes. oh yes– yeah– yeah. \* \* yeah you get this # \* \* \* .  
05:25:34.6

### CAPT

05:25:37.5 \* the seas a lot like this?  
05:25:40.3

### CM?

05:25:40.9 they all just stack up very quick (then) \* seas that high \* \* (compared to  
05:25:51.4 the) \* \* \* they don't have that up in Alaska they have \* \* straight in \* \* .

### CAPT

05:25:51.5 (yup) \* \* the Gulf of Alaska.  
05:25:54.3

### CAPT

05:26:10.5 \* \* \* (wind/weird) shift \* \* \* over on our starboard side \* \* \* .  
05:26:24.1

### ?

05:26:15.5 \* (wind to subside) here \* .  
05:26:16.7

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:26:27.4 there's a storm (passing) \*.  
05:26:29.5

**CAPT**

05:26:31.8 (a little at a time).  
05:26:34.0

**CAPT**

05:26:46.9 \* \* \* mate.  
05:26:50.6

**CM**

05:26:55.9 \* \* \* (finished work) working \* \*.  
05:26:58.3

**M1**

05:27:08.2 [An unintelligible conversation took place between two or more  
05:27:15.4 unidentified individuals not near a microphone.]

**M1**

05:28:44.5 [An unintelligible conversation took place between two or more  
05:28:52.4 unidentified individuals not near a microphone. Some laughing was  
heard.]

**CAPT**

05:29:02.5 there ya go (got) all the machinery just in front the boiler know what I  
05:29:11.5 mean? (cargo shift/cargo ship/probably just) operating \* \* \* (starboard  
side of the hold).

**?**

05:29:11.9 \* \* \*.  
05:29:19.9

**CM**

05:29:36.7 (I didn...)  
05:29:39.2

**CAPT**

05:29:40.7 what's that?  
05:29:41.7

## Secondary and Electronic Communications

## Primary Communications

**CM**

05:29:41.2

I didn't-- I didn't think about takin' that canopy down.

05:29:43.5

**CAPT**

05:29:44.0

don't worry about it.

05:29:45.5

**CM**

05:29:46.2

yes.

05:29:46.9

**CAPT**

05:29:48.9

huh. really?

05:29:50.5

**CM**

05:29:50.7

yeah. it's (blown) away. supposed to be \* \* \*.

05:29:56.1

**CAPT**

05:29:56.1

its still there or?

05:29:57.7

**CM**

05:29:57.5

yup.

05:29:57.8

**CAPT**

05:29:58.2

(gone)?

05:29:59.2

**CM**

05:29:59.6

no. hangin' by a thread.

05:30:02.1

**CAPT**

05:30:02.5

not \*-ing.

05:30:05.9

**CM**

05:30:07.5

\* \* \*.

05:30:08.8

## Secondary and Electronic Communications

## Primary Communications

?  
05:30:09.2 \*\* (shred) \*\* .  
05:30:13.5

**CAPT**  
05:30:14.3 it's was all dry rot anyway (so).  
05:30:17.6

**CAPT**  
05:30:18.9 (sometimes the plastic isn't) \* \* \* .  
05:30:23.2

?  
05:30:31.8 (yeah/yup/cap't).  
05:30:32.2

**CM**  
05:30:49.4 change in the relative wind direction the spray is hittin' us instead of  
05:30:56.9 goin' cross the beam.

**CM**  
05:31:07.5 we're takin some (water) on the stern. \* \* \* .  
05:31:13.9

**M1**  
05:31:33.6 [An unintelligible conversation took place between two or more  
05:31:41.2 unidentified individuals not near a microphone.]

?  
05:31:47.6 \* \* \* .  
05:31:52.3

**M1**  
05:32:24.1 [An unintelligible conversation took place between two or more  
05:32:30.1 unidentified individuals not near a microphone.]

?  
05:32:32.1 \* \* \* .  
05:32:33.5

**CM**  
05:36:33.6 you alright?  
05:36:35.0

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

05:36:41.4 how you doin' @AB-1?  
05:36:42.6

**CM**

05:36:42.7 you want a cup of coffee?  
05:36:44.0

**AB-1**

05:36:45.4 yes.  
05:36:46.1

**CAPT**

05:36:46.4 yes.  
05:36:46.8

**CM?**

05:36:46.7 how do you like it? black?  
05:36:47.1

**AB-1**

05:36:49.0 (just) black.  
05:36:49.7

**CM**

05:36:49.6 \*.  
05:36:50.3

**M1**

05:37:13.1 [An unintelligible conversation took place between two or more  
05:37:21.3 unidentified individuals not near a microphone.]

**CAPT?**

05:40:14.5 \* \* (goin'/slowin') down \* \* \*.  
05:40:21.2

**CAPT**

05:41:09.9 you want the chair @AB-1?  
05:41:11.2

**CAPT**

05:41:13.2 want the chair?  
05:41:13.9

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

05:41:14.1

yeah– yeah– yes sir.

05:41:16.0

**CAPT**

05:41:33.2

how's that?

05:41:33.7

**AB-1**

05:41:33.8

yup \* \*.

05:41:34.0

**CAPT**

05:43:28.3

\* \* \*.

05:43:31.7

**CAPT**

05:43:47.5

watch your step– go down to three hold– go down to three hold. \* down there \* start the pumping right now \* (probably just) water \* \* \*.

05:44:02.3

**CM**

05:43:58.6

\* \* \* suspected leak (in) (he said) \* \*.

05:44:06.2

## Secondary and Electronic Communications

**M1**

05:43:14.6

[sound of electric telephone ringing.]

05:43:16.3

**CAPT-ET**

05:43:21.0

bridge– captain.

05:43:22.5

**CAPT-ET**

05:43:36.4

we (got) a prrrrooblem.

05:43:38.5

**CAPT-ET**

05:43:39.6

three hold? ok.

05:43:41.3

**CAPT-ET**

05:43:43.8

I'll send the mate down. yeah.

05:43:45.1

## Primary Communications

**CAPT**

05:44:04.1  
05:44:06.8

I would tend to concur.

**CM?**

05:44:06.1  
05:44:08.9

\* \* 'specially the scuttle.

**CM**

05:44:09.0  
05:44:12.1

\* \* down \* I'll take a look.

**CAPT**

05:44:11.7  
05:44:21.7

yeah let let's go down to my \* get my radio \* \* your radio we're in hand steering steer right around zero-five-zero \* \* \*.

**?**

05:44:51.9  
05:44:54.7

\* \* \*.

**CAPT**

05:44:54.5  
05:44:57.0

why don't you head on down (uhh)– let me get a radio.

## Secondary and Electronic Communications

**M1**

05:44:19.5  
05:44:20.7

[sound of electric telephone ringing.]

**CAPT-ET**

05:44:27.4  
05:44:28.4

say again.

**CAPT-ET**

05:44:39.2  
05:44:51.8

yea what I don't want to do is have a lot of people up and running out on deck I'm gunna send the mate down. alright? \*.

**M1**

05:44:56.7  
05:44:58.9

[sound of electric telephone ringing.]



## Primary Communications

**CAPT**

05:44:57.9

you got it?

05:44:58.4

**CAPT**

05:44:58.9

I got it.\* \* \*.

05:44:59.5

**CAPT**

05:45:08.8

I'll go knock on his door. it's unsafe to go down in the cargo hold with gear adrift like that (it's just not safe/ it's a disaster) \* \* \*. (not gunna let them bang themselves up) \* \* \*.

05:45:17.5

**CAPT**

05:45:24.4

on your way down there knock on @3AE2's door.

05:45:27.3

**CM**

05:45:27.2

(who- @3AE2?)

05:45:28.8

## Secondary and Electronic Communications

**M1**

05:45:46.6

[sound of electric telephone ringing.]

05:45:48.3

**CM-ET**

05:45:48.8

go ahead chief mate.

05:45:50.5

**CM-ET**

05:45:55.8

so that's where the water's from?

05:45:59.8

**CM-ET**

05:46:04.2

okay. are we able to pump the bilges?

05:46:08.4

**CM-ET**

05:46:08.4

okay (that's).

05:46:10.3

## Primary Communications

**CM-ET**

05:46:14.5

05:46:18.0

**CM-ET**

05:46:21.6

05:46:28.0

**CM-ET**

05:46:31.1

05:46:32.1

**CM-ET**

05:46:33.5

05:46:36.3

**CM-ET**

05:46:37.5

05:46:39.4

**CAPT-ET**

05:46:49.3

05:46:51.9

**CAPT-ET**

05:46:53.2

05:46:53.8

**CAPT-ET**

05:46:56.0

05:46:57.2

**CAPT-ET**

05:47:00.1

05:47:00.9

**CAPT-ET**

05:47:03.5

05:47:04.0

**CAPT-ET**

05:47:12.8

05:47:14.3

## Secondary and Electronic Communications

understand. \* ship or (come/roll) over.

that's a lot of water. okay got bilge pumps running right? okay.

okay.

say that again\*.

the first down there? [first, as in AE.]

say again– say again (your last).

yup.

yup.

okay.

alright.

alright. okay.

## Primary Communications

**CAPT**

05:47:29.5  
05:47:30.8

better go down and have a look.

**CM**

05:47:33.1  
05:47:35.2

get my radio and knock on @3AE2's door.

## Secondary and Electronic Communications

**CAPT-ET**

05:47:16.8  
05:47:17.4

yup.

**CAPT-ET**

05:47:20.5  
05:47:25.7

bilge pump running water rising. okay. can we pump from the starboard ramp tanks to port?

**CAPT-ET**

05:47:26.2  
05:47:27.1

let's do that.

**CAPT-ET**

05:48:28.2  
05:48:40.3

hey chief– @CAPT here just want to make sure you're down– you're in the engine room \* \* alright. now go ahead transfer \* starboard ramp tank to port.

**CAPT-ET**

05:48:41.7  
05:48:42.1

okay.

**CAPT-ET**

05:48:56.3  
05:48:56.7

I gotchya.

**CAPT-ET**

05:49:05.5  
05:49:08.0

okay. what do you think is (possible) (again/then)?

**CAPT-ET**

05:49:11.2  
05:49:11.8

yup.

## Primary Communications

**M1**

05:50:20.4  
05:50:51.7

[sound of low intensity electronic beeping, repeating about 2 beeps per second.]

## Secondary and Electronic Communications

**CAPT-ET**

05:49:14.7  
05:49:15.8

got ya.

**CAPT-ET**

05:49:17.3  
05:49:17.8

I got ya.

**CAPT-ET**

05:49:42.3  
05:49:43.2

yea. okay.

**CM-UHF**

05:49:55.5  
05:49:57.1

captain– chief mate radio check.

**CAPT-UHF**

05:49:57.8  
05:50:00.9

yup. loud and clear. did you knock on @3AE2's door?

**CM-UHF**

05:50:00.9  
05:50:02.9

yes– I did (knocked on his door).

**CAPT-UHF**

05:50:05.9  
05:50:20.0

um I'll give you the (star) from up here. go down– touch base– see what's goin' on in three hold call me back. If we need to call up more people so be it @CE is transferring internally starboard ramp tank to port.

**CM-UHF**

05:50:20.2  
05:50:21.2

roger.

**M1**

05:52:13.0  
05:52:15.1

[sound of electric telephone ringing.]

## Primary Communications

**CAPT-ET**

05:52:18.3

05:52:19.3

**CAPT-ET**

05:52:20.3

05:52:20.5

**CAPT-ET**

05:52:38.6

05:52:52.5

**CAPT-ET**

05:52:58.3

05:53:00.0

**CAPT-ET**

05:53:01.5

05:53:01.7

**CAPT-ET**

05:53:16.1

05:53:16.7

**CAPT-ET**

05:53:22.5

05:53:26.2

**CAPT-ET**

05:53:29.2

05:53:29.7

**CAPT-ET**

05:53:39.3

05:53:48.3

**CAPT-ET**

05:53:49.6

05:53:50.3

## Secondary and Electronic Communications

bridge– captain.

yup.

okay what I'm gunna do– I'm gunna turn the ship and get the wind (on the north side) right there and get (it going) more (in that) direction get everything on the starboard side give us a port list and (um see) if we'll have a better look at it.

yeah– so it is the scuttle?

(yup).

(okay/good).

\* \* \*.

yep.

okay real– good real good. I'll umm start the turn now (the) best I can. uh– more R-P-M available?

yeah.

## Primary Communications

**CAPT**  
05:54:26.7 put your rudder uhhh...  
05:54:28.1

**CAPT**  
05:54:28.6 left twenty.  
05:54:29.3

**AB-1**  
05:54:29.9 left twenty.  
05:54:30.9

## Secondary and Electronic Communications

**CAPT-ET**  
05:53:50.9 I got you. I got you. alright.  
05:53:55.1

**CAPT-ET**  
05:54:01.8 yup.  
05:54:02.5

**CAPT-ET**  
05:54:06.6 alright go 'head.  
05:54:08.2

**CAPT-ET**  
05:54:15.9 I got. I got ya.  
05:54:17.7

**CAPT-ET**  
05:54:19.9 alright (gunna) start the turn to port. alright thank  
05:54:22.5 you.

**CM-UHF**  
05:54:27.3 (this is the) chief mate.  
05:54:28.6

**CAPT-UHF**  
05:54:31.1 yes go ahead mate.  
05:54:32.6

## Primary Communications

**CM-UHF**

05:54:33.5

05:54:43.1

**CAPT-UHF**

05:54:44.1

05:55:00.1

**CM-UHF**

05:55:00.4

05:55:08.9

**CAPT-UHF**

05:55:09.6

05:55:16.5

**CM-UHF**

05:55:16.5

05:55:22.5

**CAPT-UHF**

05:55:22.6

05:55:25.4

**CM-UHF**

05:55:28.3

05:55:29.8

**CAPT-UHF**

05:55:30.4

05:55:32.2

**CAPT-UHF**

05:55:34.0

05:55:39.2

## Secondary and Electronic Communications

there's a hold that's flooded on the starboard side \*  
\* (we'll have to go into) three hold \* \* bosun (to  
wait/awake).

let me uhh– I just got off the house phone with the  
chief. I want to turn the uhh– ship to port– get the  
list on the port side there. can you access it right  
now? how much water is there?

(ya got) water against the side just enough to  
(go/throw/pour) over the edge of scuttle about  
knee deep (in here) water (rolls) right over.

okay. (now) let me do that (I'm) comin' left right  
now. (you need) anybody else down there (with  
ya)?

\* \* \*

alright. do you smell anything down there?

no. (nothing but spray).

(thank you).

well I certainly don't want you (doing any/goin' in)  
doing it alone– I'd much rather have someone else  
there with you.

## Primary Communications

**CAPT**  
05:56:27.4 midship.  
05:56:28.2

**AB-1**  
05:56:28.5 midship.  
05:56:29.1

**CAPT**  
05:56:28.7 why don't you steer that course right there.  
05:56:31.2

**CAPT**  
05:56:33.2 three-five-zero.  
05:56:34.5

## Secondary and Electronic Communications

**CM-UHF**  
05:55:40.4 (sure).  
05:55:41.6

**CAPT-UHF**  
05:55:42.4 now (uhh)— any of the engineers around?  
05:55:47.3

**CM-UHF**  
05:55:48.1 \* \* \* (by) myself.  
05:55:51.8

**CAPT-UHF**  
05:55:52.4 \* \* \* stay right there. don't move. stay right there.  
05:55:58.4 (don't move).

**CAPT-UHF**  
05:55:59.0 (alright/uh huh).  
05:56:00.0

**CAPT-UHF**  
05:56:02.1 standby by one— stand by one.  
05:56:06.2

**CM-UHF**  
05:56:06.2 standing by.  
05:56:06.8



## Primary Communications

**AB-1**

05:56:34.7

05:56:39.4

three-five-zero copy three-five-zero. okay gotchya.

**CAPT**

05:56:56.8

05:57:09.4

okay. \* steer that course right there. let me go uhh give the engine room a shout \*\* tell 'em stop transferring.

## Secondary and Electronic Communications

**CAPT-UHF**

05:56:43.3

05:56:51.2

alright mate chief mate we got it listing over to port now can you (see/just) can you see it down there? the water level?

**CM-UHF**

05:56:51.1

05:56:54.1

\* \* \*.

**CAPT-ET**

05:57:18.5

05:57:20.8

hey chief [CE]- @CAPT here.

**CAPT-ET**

05:57:23.7

05:57:25.2

(still/smell/spill) a lot of diesel?

**CM-UHF**

05:57:25.7

05:57:29.8

(yeah that's far enough) captain \* (bulkhead) \*.

**CAPT-ET**

05:57:29.8

05:57:31.4

you notice any \*?

**CAPT-ET**

05:57:32.4

05:57:32.8

yup.

**CAPT-ET**

05:57:33.2

05:57:40.9

alright we got a nice port list can you stop transferring? from starboard to port segregated ballast (from/the) ramp tanks.

## Primary Communications

**CAPT**  
05:58:46.8     steer three-five-zero. come left three-five-zero.  
05:58:49.1

## Secondary and Electronic Communications

**CM-UHF**  
05:57:47.5     I got @SUP-1 with me here– we're ready to go  
05:57:53.6     (down/below) (on/in) \* starboard (scuttle) \*.

**CAPT-ET**  
05:57:56.0     stop transferring the ballast from starboard to port.  
05:57:59.7

**CAPT-ET**  
05:58:00.7     that's it right now \* \* the diesel– ah– [sound of  
05:58:13.6     chuckle] maybe– maybe it's our diesel tank.  
                  maybe it's our power pack. almighty thanks.

**CAPT-UHF**  
05:58:15.9     alright chief mate– you guys feel comfortable doin'  
05:58:21.0     that (maybe) you need more people?

**?-UHF**  
05:58:20.4     \* \* \* (on purpose/on for us) \* (it's) dry \* \* \* (see it  
05:58:32.9     down) the scuttle (we got water/blown out) \* \* \*  
                  (the worst area's already dried out).

**CAPT-UHF**  
05:58:34.8     okay. you got a lifeline on him or anything? is there  
05:58:40.1     any worry of him going over?

**?-UHF**  
05:58:40.2     (uh he's) \* \* (water) I think he's okay \* \* (green)  
05:58:44.8     water.

**CAPT-UHF**  
05:58:51.5     (do you) need more help down there or you feel  
05:58:55.0     comfortable doing this?

**?-UHF**  
05:58:55.2     \* \* \* (feel comfortable right now/still pourin' out).  
05:58:58.0

## Primary Communications

**AB-1**

05:59:20.2 (keep it on) midship?  
05:59:21.3

**CAPT**

05:59:21.3 yup yup. steer three-five-zero \* \* .  
05:59:24.7

**M1**

05:59:25.1 [sound similar to door closing or flapping.]  
05:59:25.6

**M1**

05:59:29.2 [sound similar to door closing or flapping.]  
05:59:29.6

**2M**

05:59:30.7 (three-five-zero).  
05:59:31.8

**CAPT**

05:59:31.9 hi. [spoken with friendly rising tone in a raised voice.]  
05:59:32.4

**2M**

05:59:32.5 (hi/how are you) captain?  
05:59:35.0

**CAPT**

05:59:35.3 how are you?  
05:59:35.7

## Secondary and Electronic Communications

**CAPT-UHF**

05:58:58.3 okay real good.  
05:58:60.0

**?-UHF**

05:59:00.7 \* \* \* .  
05:59:04.9

## Primary Communications

**CAPT**

05:59:37.4 a scuttle popped open and there's a little bit of water on in three hold.  
05:59:54.2 they're pumping it out right now. the mate's down there with @SUP-1  
he's down (in the/he's closing / \* \*) the scuttle.

**M1**

05:59:45.7 [sound similar to hourly GPS alarm activating.]  
06:00:19.5

## Secondary and Electronic Communications

**M1**

05:59:50.3 [sound of electric telephone ringing.]  
05:59:52.8

**CAPT-ET**

05:59:55.8 bridge– captain.  
05:59:57.1

**?-UHF**

05:59:57.2 ('kay cap'/'kay get up here) it's done. it's done.  
05:59:59.0

**CAPT-ET**

06:00:02.4 okay what's \* what do you got there?  
06:00:04.6

**CAPT-ET**

06:00:05.7 okay.  
06:00:06.3

**CAPT-ET**

06:00:12.2 okay.  
06:00:12.8

**?-UHF**

06:00:20.6 \* \* \*  
06:00:23.2

**CAPT-ET?-  
UHF?**

06:00:23.2 copy that.  
06:00:24.0

## Primary Communications

**CAPT-ET?-  
UHF?**

06:00:35.8

06:00:36.3

**CAPT-ET**

06:00:39.0

06:00:39.9

**CAPT-ET**

06:00:42.3

06:00:44.2

**?-UHF**

06:00:45.9

06:00:48.9

**CAPT-ET**

06:00:50.7

06:00:53.6

**CAPT-ET**

06:00:53.9

06:00:54.5

**CAPT-ET**

06:00:55.4

06:00:58.1

**CAPT-UHF**

06:01:02.0

06:01:05.9

**CM-UHF**

06:01:06.0

06:01:06.7

**CAPT-UHF**

06:01:07.2

06:01:09.4

## Secondary and Electronic Communications

chief.

okay.

(all through) the ventilation?

\* \* \*.

want me to bring it back over to starboard?

alright.

bring it back roll back over to starboard.

say chief mate- @CAPT gunna (start transferring to starboard).

chief mate.

('kay) you got the scuttle closed?

## Primary Communications

**CAPT**  
06:01:39.5      hey second mate.  
06:01:40.4

**2M**  
06:01:40.8      yea?  
06:01:41.3

**CAPT**  
06:01:41.4      see what's up with this radar right here.  
06:01:43.5

**2M**  
06:01:44.3      I'm (just gettin' a) position...  
06:01:46.9

**CAPT**  
06:01:46.4      oh sure— sure go 'head.  
06:01:47.7

## Secondary and Electronic Communications

**CM-UHF**  
06:01:09.7      (yeah) the scuttle is (closed) we're off the  
06:01:13.2      (deck/second/deckie).

**CAPT-UHF**  
06:01:14.0      (yeah) real good.  
06:01:15.1

**CAPT-UHF**  
06:01:15.9      come on up here.  
06:01:16.9

**CM-UHF**  
06:01:18.8      (captain) \* \* \*.  
06:01:21.0

**CAPT-UHF**  
06:01:25.4      @SUP-1 right there with ya?  
06:01:27.6

**CM-UHF**  
06:01:31.7      (roger).  
06:01:32.6

## Primary Communications

**2M**

06:01:53.4 see it on the radar?  
06:01:54.3

**CAPT**

06:01:55.1 see if you can get that radar to come back up.  
06:01:56.8

**2M**

06:01:57.2 oh now?  
06:01:58.5

**CAPT**

06:01:58.3 yup.  
06:01:58.4

**CAPT**

06:02:00.7 right twenty– keep her right twenty.  
06:02:02.4

**AB-1**

06:02:02.6 right twenty.  
06:02:03.3

**AB-1**

06:02:03.6 rudder right twenty  
06:02:04.6

**CAPT**

06:02:42.3 give them a shout down below. one-nine. (let 'em know/tell them) the  
06:02:48.6 scuttle has been shut– the scuttle is shut.

## Secondary and Electronic Communications

**CAPT-UHF**

06:02:07.0 say chief mate– chief mate.  
06:02:09.1

**2M-ET**

06:02:55.3 yeah the scuttle has been shut.  
06:02:57.0

## Primary Communications

**2M**

06:03:09.7 hear an alarm going off (he/they) couldn't hear me.  
06:03:11.8

**CAPT**

06:03:17.5 give her right twenty @AB-1.  
06:03:18.8

**AB-1**

06:03:18.6 right twenty captain– rudder's right twenty.  
06:03:22.0

**2M**

06:03:41.0 did we come down on the R-P-M or did they do that?  
06:03:43.5

**CAPT**

06:03:43.5 they did (that/fast).  
06:03:44.5

**2M**

06:04:00.6 \* \* \*(./?)  
06:04:04.9

**?**

06:04:05.2 (@SUP-1/yes).  
06:04:06.1

**CAPT**

06:04:06.9 yup.  
06:04:07.3

**CM?**

06:04:07.9 \* @SUP-1– call me back on the radio.  
06:04:10.1

## Secondary and Electronic Communications

**2M-ET**

06:02:59.2  
06:03:07.6

the– the shuttle has been scut– the \* [sound of chuckle] \* okay– okay (seriously) this is gunna make me laugh. [The 2M was tongue tied.]



## Primary Communications

**CAPT**

06:04:10.3

he did?

06:04:10.6

**CM?**

06:04:10.7

oh- okay.

06:04:11.4

**?**

06:04:13.5

\* (@SUP-1).

06:04:14.4

**CAPT**

06:04:16.1

go hard right.

06:04:17.9

**AB-1**

06:04:17.9

hard right.

06:04:18.7

**CAPT**

06:04:19.1

(what was down there?)

06:04:19.9

**?**

06:04:19.8

yes.

06:04:20.0

**CM**

06:04:20.7

umm.

06:04:21.1

**CAPT**

06:04:21.7

what did you find down there?

06:04:23.6

**CM**

06:04:24.0

uhh \* \* (pump) (sea waters/three quarters) (last night).

06:04:27.1

**CAPT**

06:04:27.2

okay.

06:04:27.3

## Secondary and Electronic Communications

## Primary Communications

**M1**

06:04:27.5 [An unintelligible conversation took place not in the vicinity of a  
06:04:30.2 microphone.]

**CM**

06:04:30.2 ya know it's– the scuttle('s) half way open. clogged. (the way it's/go  
06:04:43.8 ahead) (start those) fire hoses \* \* pretty clear \* the guys closed it.

**SUP-1?**

06:04:43.8 how many dogs?  
06:04:44.4

**CM**

06:04:44.5 \* yeah those scuttles were closed you know they were checked but  
06:04:51.9 (something/somebody) (might have went through).

**CAPT**

06:04:52.0 see the level goin' \* (glasses/lashes) \*.  
06:04:55.3

**CM**

06:04:54.2 yea.  
06:04:54.8

**CM**

06:04:55.4 I– I saw it before I went down in the cargo hold. (lights/right?).  
06:04:58.7

**CAPT**

06:04:58.1 \* (down in) the engine room?  
06:04:59.7

**CM?**

06:05:00.7 so we're good.  
06:05:04.1

**CAPT**

06:05:04.4 ease to thirty.  
06:05:05.3

**AB-1**

06:05:05.5 ease to thirty.  
06:05:06.6

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

06:05:08.4  
06:05:10.0

\* thirty.

**CAPT**

06:05:09.5  
06:05:10.1

okay.

**CM**

06:05:10.2  
06:05:13.9

want me to (run/go) down and monitor the water level?

**CAPT**

06:05:14.2  
06:05:19.2

yeah do you need me to wake anyone else up? you want me to get the boatswain up? you want me to get (the/a few) guys up?

**CM**

06:05:19.2  
06:05:36.0

I still have \* down there umm there's not much I can do except just look down there and see water \* \* \* (um you know) \* \* \*.

**CAPT**

06:05:35.3  
06:05:39.7

see any cars that broke free or anything like that?

**CM**

06:05:39.3  
06:05:54.0

not that I can see just lookin' from third deck. (okay). I saw the water pouring down through the scuttle from third deck– I couldn't (get/climb) the ladder so I went up to the second deck. If you'd like I'll go back down \* \*.

**CAPT**

06:05:54.1  
06:05:58.0

yeah get another radio keep it dry we need ears and eyes down there.

**CM**

06:05:58.0  
06:05:58.5

alright.

**CM?**

06:05:59.9  
06:06:00.8

I'll go.

## Secondary and Electronic Communications

## Primary Communications

**2M**

06:06:05.9  
06:06:07.8

got the radar up.

**CAPT**

06:06:08.5  
06:06:09.4

alright. good.

**2M**

06:06:19.0  
06:06:21.7

did it get wet? is that why it went out? or?

**CAPT**

06:06:21.7  
06:06:27.7

not sure. I'm not going out to look at it. know what I mean?

**2M**

06:06:30.7  
06:06:32.4

(on that) unit itself.

**CAPT**

06:06:32.3  
06:06:32.9

(exactly).

**CAPT**

06:06:33.7  
06:06:35.3

\* \* (unit itself).

**CAPT**

06:06:38.1  
06:06:38.8

\* (get wet).

**2M**

06:06:42.8  
06:06:45.0

\* \* \*.

**CAPT**

06:06:45.0  
06:06:45.6

alright.

**2M**

06:06:54.4  
06:06:55.7

(I'm gunna) plot that position.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:06:55.8  
06:06:56.7

that'll be great.

**AB-1**

06:07:29.0  
06:07:30.2

\*

**CAPT**

06:07:31.5  
06:07:34.6

\* (you okay)? keep that rudder right there.

**AB-1**

06:07:34.7  
06:07:35.5

okay.

**?**

06:07:40.2  
06:07:41.2

\* (our course?).

**CAPT**

06:07:41.4  
06:07:47.4

something broke free up top probably a handrail or something. \* don't wanna go out.

**CAPT**

06:08:30.0  
06:08:33.1

\* sync up the latest B-V-S \* (file/model).

**2M**

06:08:34.8  
06:08:36.0

it's stormy.

**CAPT**

06:08:43.3  
06:08:46.6

(sound's like \* gettin worse up here) \* right now.

**2M**

06:08:47.4  
06:09:00.9

uh \* \* (try/dry) it down there \* \* \* (but) (the wheel's) spinning around \*  
\*(umm) it sounded like (umm/the wrong) \* \* \*. [The 2M seemed to be speaking in reference to a locked up computer.]

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:09:01.0  
06:09:01.9

yeah.

**2M**

06:09:02.5  
06:09:09.3

\* \* \*

**CAPT**

06:09:09.4  
06:09:11.7

we're not pounding we're not (rocking).

**2M**

06:09:11.4  
06:09:11.9

nooo.

**2M**

06:09:15.8  
06:09:18.2

there goes the (lawn) (furniture).

**CAPT**

06:09:19.7  
06:09:21.1

let's hope that's all.

**2M**

06:09:22.0  
06:09:24.9

if you don't need me (up/out) you want me to stay with you?

**CAPT**

06:09:24.9  
06:09:25.4

please.

**CAPT**

06:09:59.1  
06:10:02.5

it's just (the) \* (it's just the) \*

## Secondary and Electronic Communications

**CM-UHF**

06:10:40.3  
06:10:42.2

(chief mate to the) bridge.

**CAPT-UHF**

06:10:42.3  
06:10:43.4

go ahead mate.

## Primary Communications

**CAPT**  
06:12:20.6 I'm not liking this list.  
06:12:22.9

**CAPT**  
06:13:01.0 I think we just lost the plant.  
06:13:03.0

## Secondary and Electronic Communications

**CM-UHF**  
06:10:43.7 okay captain (on my way in/all the way in).  
06:10:47.9

**CAPT-UHF**  
06:10:48.5 alright. notify \* \* .  
06:10:52.4

**CM-UHF**  
06:10:53.6 \* \* .  
06:10:54.6

**CAPT-UHF**  
06:10:55.4 alright. that's good. \* and transfer over to the  
06:11:03.0 starboard ramp tank \* \* starboard.

**CM-UHF**  
06:11:04.3 \* \* port to starboard ramp tank.  
06:11:07.7

**M1**  
06:13:17.7 [sound of electric telephone ringing.]  
06:13:19.0

**CAPT-ET**  
06:13:19.2 go ahead.  
06:13:20.0

**CAPT-ET**  
06:13:24.0 who is this?  
06:13:24.8

**CAPT-ET**  
06:13:28.4 what's your question?  
06:13:29.8

## Primary Communications

**2M**

06:13:42.2 (who's that)?  
06:13:43.0

**CAPT**

06:13:43.1 \* (@REFENG).  
06:13:44.0

**2M**

06:14:12.9 \* \* \*.  
06:14:15.5

## Secondary and Electronic Communications

**CAPT-ET**

06:13:34.7 uh \* \* (weather).  
06:13:36.4

**CAPT-ET**

06:13:37.0 \* \*.  
06:13:37.8

**CAPT-UHF**

06:14:02.7 (chief mate/you okay) chief mate(/?)  
06:14:04.3

**CAPT-UHF**

06:14:24.3 chief mate– chief mate.  
06:14:26.3

**?-UHF**

06:14:27.2 \* \*.  
06:14:28.4

**CAPT-UHF**

06:14:29.4 yeah where are you?  
06:14:30.5

**?-UHF**

06:14:31.5 \* \* (engine room) \* \* \*.  
06:14:39.8

**CAPT-UHF**

06:14:40.7 (yup) I'm lookin' for the chief mate– is this the chief  
06:14:43.9 mate?



**Primary Communications**

**2M**  
06:14:50.5 \* \* \*  
06:14:52.1

**2M**  
06:15:22.4 \* \* \*  
06:15:24.4

**CAPT**  
06:15:25.3 yup.  
06:15:26.2

**2M**  
06:15:26.1 \*  
06:15:26.8

**Secondary and Electronic Communications**

**?-UHF**  
06:14:44.6 \* \* \*  
06:14:45.9

**CAPT-UHF**  
06:14:46.9 call me on the house phone.  
06:14:48.0

**?-UHF**  
06:14:51.2 \* \* \*  
06:14:52.1

**M1**  
06:16:01.5 [sound of electric telephone ringing.]  
06:16:02.8

**CAPT-ET**  
06:16:03.1 bridge captain.  
06:16:04.1

**CAPT-ET**  
06:16:12.1 okay.  
06:16:12.6

**CAPT-ET**  
06:16:14.4 so... is there any chance of gettin' it back online?  
06:16:18.0

**Primary Communications**

**CAPT**

06:16:26.7 (they'll) bring everything back up online.  
06:16:28.8

**2M**

06:16:28.9 they back?  
06:16:29.9

**CAPT**

06:16:29.8 (no/yeah) said that they are.  
06:16:31.7

**2M**

06:16:36.8 it (sucks/tough) when you want– you want the info but you know that  
06:16:41.7 you can't have it.

**CAPT**

06:16:41.8 that's why I wait for them to call.  
06:16:43.9

**2M**

06:16:52.6 \* \* \*  
06:16:55.3

**CAPT**

06:16:55.7 \* \*  
06:16:57.1

**2M**

06:16:59.9 \* \* \*  
06:17:04.2

**CAPT**

06:17:02.6 (yes).  
06:17:03.4

**Secondary and Electronic Communications**

**CAPT-ET**

06:16:20.0  
06:16:22.1

any chance of gettin' it back online?

**M1**

06:17:27.3  
06:17:29.2

[sound of electric telephone ringing.]

## Primary Communications

**2M**

06:18:38.3 did they say uh (they're getting) water (at? / I) when (they/you) told me I  
06:18:43.4 was half asleep.

**CAPT**

06:18:42.8 yeah (they said/there's) water sloshing (and) it's coming in through the  
06:18:49.0 ventilation (in) the engine room.

**2M**

06:18:54.6 yeah \* \* (driving rain).  
06:18:58.1

## Secondary and Electronic Communications

**CAPT-ET**

06:17:30.2 bridge captain.  
06:17:31.0

**CAPT-ET**

06:17:32.1 yeah what'da got?  
06:17:33.6

**CAPT-ET**

06:17:42.5 where's the water comin' from?  
06:17:44.9

**CAPT-ET**

06:17:54.3 do you have all (screens) located?  
06:17:56.6

**CAPT-ET**

06:18:00.9 (some) water up there?  
06:18:02.8

**CAPT-ET**

06:18:19.0 okay right there.  
06:18:21.1

**CAPT-ET**

06:19:21.8 third- [3AE, unclear which 3AE.] need you to  
06:19:33.4 pump from port to starboard on the ramp tanks.  
yeah call me back when you're pumping. I need to  
pump port to starboard.

## Primary Communications

**M1**

06:19:56.1

06:19:57.8

**CAPT-ET**

06:20:01.2

06:20:01.9

**CAPT-ET**

06:20:22.6

06:20:23.2

**CAPT-ET**

06:20:23.7

06:20:29.1

**CAPT-ET**

06:20:35.2

06:20:37.2

**CAPT-ET**

06:20:37.7

06:20:38.0

**CAPT-ET**

06:20:41.0

06:20:44.1

**CAPT-ET**

06:20:45.8

06:20:46.8

**CAPT-ET**

06:20:50.2

06:20:54.3

**M1**

06:21:11.4

06:21:12.5

**CAPT-ET**

06:21:12.7

06:21:13.2

## Secondary and Electronic Communications

[sound of electric telephone ringing.]

bridge captain.

alright.

now. (I'm) having them transfer from port to starboard.

what hold is this?

alright.

nobody goin' down there.

okay.

alright. thank you. thank you.

[sound of electric telephone ringing.]

captain.

## Primary Communications

**CAPT-ET**

06:21:15.3

06:21:17.7

**CAPT-ET**

06:21:18.5

06:21:20.4

**CAPT-ET**

06:21:21.0

06:21:22.1

**CAPT-ET**

06:21:23.2

06:21:24.9

**CAPT-ET**

06:21:25.5

06:21:26.3

**CAPT-ET**

06:21:27.6

06:21:31.6

**CAPT-ET**

06:21:41.0

06:21:41.3

**CAPT-ET**

06:21:49.3

06:21:50.9

**CAPT-ET**

06:21:51.2

06:21:52.1

**CAPT-ET**

06:21:53.9

06:21:55.0

**CAPT-ET**

06:21:57.6

06:21:58.1

## Secondary and Electronic Communications

okay you're transferring from port to starboard?

yeah and you're-- you're still pumpin'?

still pumpin'?

alright. who is this?

alright @3AE1.

is there anyway to tell (then) if you (actually) have suction and it is pumping?

okay.

okay. real good.

chief right there?

the chief right there?

alright.

## Primary Communications

**CAPT**

06:23:02.8 why don't you go down below and knock on @3M's door please \* wake  
06:23:10.6 up grab a radio come on up here.

**2M**

06:23:24.4 uh can I get changed while I'm down there?  
06:23:26.9

**CAPT**

06:23:27.3 what?  
06:23:27.6

**2M**

06:23:27.7 changed into work clothes.  
06:23:29.1

**CAPT**

06:23:29.1 yes.  
06:23:29.4

**CAPT**

06:23:36.0 get that.  
06:23:36.9

**CAPT**

06:24:02.6 \* \* (down/now) \*  
06:24:06.7

## Secondary and Electronic Communications

**CAPT-ET**

06:21:58.6  
06:22:00.5

when you get out there have him call me.

**M1**

06:23:16.9  
06:23:51.8

[sound of SAT-C terminal receiving incoming message.]

**M1**

06:23:37.5  
06:24:52.1

[sound of SAT-C terminal printer printing.]

**CAPT-UHF**

06:23:56.3  
06:23:59.0

say chief mate \* \* \*. [voice obscured by sudden high frequency sound.]

## Primary Communications

**?-UHF**

06:24:04.6

06:24:06.6

**CAPT-UHF**

06:24:07.6

06:24:09.4

**CAPT-ET**

06:24:23.7

06:24:26.0

**CAPT-ET**

06:24:27.3

06:24:28.9

**CAPT-ET**

06:24:32.2

06:24:34.8

**CAPT-ET**

06:24:39.2

06:24:42.9

**CAPT-ET**

06:24:48.8

06:24:59.6

**CAPT-ET**

06:25:04.5

06:25:05.0

**CAPT-ET**

06:25:06.3

06:25:07.1

**CAPT-ET**

06:25:12.2

06:25:13.7

## Secondary and Electronic Communications

\* (tell the/through the) (engineers/engine room) (to come up/climb up).

alright real good.

hey third [3AE, unclear which 3AE.]– (cap' here).

what's it lookin' like give me an update.

yup– can I have an update?

so you're pumping over segregated ballast (port to) starboard?

I think that's the plan that's what we're doing right now. and then umm. not only are we transferring ballast but I just talked with @3AE1 \* he's back pumping (that/on) hold (too/two).

yup.

I believe it.

that's fine.

## Primary Communications

**AB-1**

06:26:55.0  
06:26:56.1

\* \*.

**CAPT**

06:26:56.3  
06:26:57.1

what's that?

**AB-1**

06:26:57.0  
06:27:00.5

water. \* \* ( dripping) \*.

**CAPT**

06:26:59.7  
06:27:01.6

naw that's okay. don't worry 'bout it.

## Secondary and Electronic Communications

**CAPT-ET**

06:25:14.4  
06:25:15.1

alright.

**CAPT-ET**

06:25:15.6  
06:25:17.2

call you back.

**CAPT-UHF**

06:27:12.2  
06:27:13.3

'say chief mate.

**?-UHF**

06:27:18.4  
06:27:20.3

(still on deck cap'n but I'm on my way up).

**?-UHF**

06:27:26.6  
06:27:27.3

(alright cap'n).

**CAPT-UHF**

06:27:28.0  
06:27:28.5

ya.

**CAPT-UHF**

06:27:29.7  
06:27:31.9

what's your twenty? where are ya?



**Primary Communications**

?  
06:27:53.6 I'm right here cap'n.  
06:27:55.8

**CAPT**  
06:27:55.2 (alright) \*  
06:27:56.6

?  
06:28:08.4 \* \*  
06:28:09.8

**CAPT**  
06:28:09.9 (yo/go).  
06:28:10.9

?  
06:28:14.8 where do you want us?  
06:28:16.2

**CAPT**  
06:28:16.9 right here.  
06:28:17.5

?  
06:28:17.7 yes sir.  
06:28:18.4

**CAPT**  
06:28:18.5 alright.  
06:28:18.9

**CAPT**  
06:28:19.7 stay right here.  
06:28:20.8

?  
06:28:22.6 \* \* \*  
06:28:25.4

**Secondary and Electronic Communications**

?-UHF  
06:27:32.9 we're out on deck comin' up.  
06:27:34.4

## Primary Communications

**CAPT**

06:28:25.4  
06:28:26.0

\* \* \*.

**M1/M2/M3**

06:28:26.1  
06:28:31.7

[Audio in this area was corrupted. There was a discontinuity in the recording.]

**?**

06:28:31.8  
06:28:44.0

\* \* \* (pouring into the ship) \* \* \* (\* hold) somebody somehow (it got opened). \* \* \*.

**CAPT**

06:28:44.1  
06:28:48.2

\* \* \*.

**?**

06:28:48.2  
06:28:54.1

\* \* \* (closed or open) \* \* \*.

**CAPT**

06:28:54.1  
06:29:04.0

\* \* \* (pump) segregated ballast \* \* \*...

**?**

06:29:04.1  
06:29:09.3

yea its \* \* \*.

**?**

06:29:09.6  
06:29:10.0

cap'n.

**CAPT**

06:29:10.1  
06:29:10.8

(yes sir).

**CAPT**

06:29:11.3  
06:29:17.1

\* \* \*.

**?**

06:29:24.6  
06:29:27.6

\* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT?**

06:29:29.1

\* \* \*.

06:29:31.7

**?**

06:29:35.9

\* \* \*.

06:29:39.6

**?**

06:29:49.4

\* \* \*.

06:29:53.6

**CAPT**

06:30:14.3

\* \* third mate \* I wanna make sure \* \* \* (chief mate) \* \* \* (starboard) \* \*

06:30:41.9

\* (how much) water \* \* \*.

**?**

06:30:44.4

It is listing to port \* \* \* (suck/stuck) \* \* \* (there's no way) \* \* \*.

06:30:53.3

**CAPT**

06:30:54.4

It was from the scuttle that was open \* \* \* (on three) deck?

06:31:00.2

**?**

06:31:00.2

second.

06:31:00.6

**CAPT**

06:31:00.6

second deck.

06:31:02.1

**?**

06:31:02.1

\* \* \*.

06:31:03.9

**CAPT?**

06:31:02.1

\* \* \*.

06:31:03.9

**CAPT?**

06:31:17.0

\* \* (steering) \* \* I just want everybody up.

06:31:22.9

## Secondary and Electronic Communications

## Primary Communications

**3M?**

06:31:24.5

am I relieving the watch?

06:31:25.7

**CAPT**

06:31:26.2

\* \* \*.

06:31:30.1

**3M?**

06:31:30.6

tell me what to do I'll (do it) \*.

06:31:32.4

**CAPT**

06:31:35.5

(hand steering) \* \* \*.

06:31:39.0

**?**

06:31:39.1

\* \* \*.

06:31:40.5

**AB-1**

06:31:40.7

\* \* (thirteen/thirty).

06:31:43.5

**?**

06:31:43.2

(still have the) rudder on?

06:31:44.9

**3M**

06:31:46.8

what's the millibars?

06:31:48.6

**?**

06:31:49.5

\* \* \*.

06:31:52.5

**2M**

06:31:52.8

\* \* (I've got) for (ops/options) are flooding or...

06:31:57.1

**?**

06:31:53.2

\*.

06:31:53.7

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:31:58.3  
06:31:58.9

I'm right here.

**CAPT**

06:31:59.6  
06:32:02.2

flooding. list.

**2M**

06:32:02.3  
06:32:13.7

its uhh all I got is flooding or we can do ummm– disabled and adrift \* \* \*  
multiple.

**CAPT**

06:32:13.8  
06:32:25.1

I would I would do a bunch of them– no \* \* don't necessarily go all right  
now. those are the ones that are preprogrammed.

## Secondary and Electronic Communications

**CAPT-ET**

06:32:37.0  
06:32:38.4

hey chief @CAPT here.

**?-ET**

06:32:39.3  
06:32:40.4

\* (yea).

**CAPT-ET**

06:32:46.9  
06:32:49.1

alright that sounds good.

**CAPT-ET**

06:32:50.7  
06:32:51.3

that's fine.

**CAPT-ET**

06:32:53.4  
06:32:58.9

uhh– nope. that's good news. that's– that's good  
news. thank you very much.

**CAPT-ET**

06:33:04.4  
06:33:08.5

alright and then just wanna– okay that's fine–  
that's fine.

**CAPT-ET**

06:33:15.5  
06:33:16.1

okay.

## Primary Communications

**CAPT**

06:33:31.0 yeah we'll see– they're gunna get that boiler back up online any (mi-)  
06:33:36.5 any second.

**M1**

06:33:36.8 [sound of UHF radio being turned on.]  
06:33:37.4

**CM?**

06:34:03.5 (uhh) (what is it/let me see?) [In this area two individuals may have  
06:34:06.3 been speaking at the same moment.]

**CAPT**

06:34:06.4 (they're just uh)– they're gettin' that boiler back up. they('re) gettin' lube  
06:34:11.4 oil pressure up.

## Secondary and Electronic Communications

**CAPT-ET**

06:33:19.6 okay.  
06:33:20.0

**CAPT-ET**

06:33:24.9 okay. thank you.  
06:33:27.3

**?-UHF**

06:33:37.5 go 'head.  
06:33:38.4

**CAPT-UHF**

06:33:38.6 (third mate)– third mate.  
06:33:41.4

**3M?-UHF**

06:33:41.5 go 'head.  
06:33:42.0

**CAPT-UHF**

06:33:42.8 (this is the) captain. belay that. \* \* \*  
06:33:47.0

**3M-UHF**

06:33:47.4 okay. roger. standing by.  
06:33:49.6

## Primary Communications

**CM**

06:34:10.6 do I need to take any notes?  
06:34:12.2

**CAPT**

06:34:12.2 (yea) we'll- we'll get some line rollin'.  
06:34:14.6

**CAPT?**

06:34:17.7 already have some(thing there).  
06:34:18.9

**CM**

06:34:18.7 (and) I (did/didn't) start to check water \* in the hold \* \* \* .  
06:34:23.6

**?**

06:34:31.0 \* \* \* .  
06:34:33.1

**CM**

06:34:43.5 did we secure this radar?  
06:34:44.8

**CAPT**

06:34:45.7 no.  
06:34:46.1

**2M**

06:34:46.2 (It it/I think) it went out on it's own.  
06:34:47.9

**CAPT**

06:34:47.5 okay. probably wet up there in the array.  
06:34:49.8

**CM**

06:34:55.9 (I was gunna) \* \* \* .  
06:34:58.3

**2M**

06:34:58.2 uh- not yet thanks.  
06:35:00.0

## Secondary and Electronic Communications

## Primary Communications

**CM**

06:35:03.8 I came up here without my glasses.  
06:35:06.0

**CM**

06:35:07.5 mind if I run and get them cap'n?  
06:35:09.0

**CM**

06:35:14.0 captain?  
06:35:14.7

**CAPT**

06:35:14.8 yup.  
06:35:15.2

**CM**

06:35:15.3 I came up without my glasses can I run and get them?  
06:35:17.4

**CAPT**

06:35:17.4 sure. absolutely.  
06:35:18.9

**CM**

06:35:28.5 \* \* \*  
06:35:31.0

**2M**

06:35:38.2 I have (the/a) like uh format(ted/ting) myself \* (I) have to (know/go) um  
06:35:53.2 \* just flooding cargo \* time and position umm I saved it.

**CAPT**

06:35:42.8 yup.  
06:35:43.4

**2M**

06:35:55.7 so then...  
06:35:56.5

**2M**

06:35:59.0 then I have to go to transmit and you have to pick a specific person to  
06:36:07.1 send it to.

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

06:36:06.4  
06:36:14.9

\* figure that out. see if there's other addresses on there that you can pick so that it would get sent to the right people.

**AB-1**

06:37:44.8  
06:37:47.5

(keep it) \* \* .

**CAPT**

06:37:47.6  
06:37:48.6

what's that?

**AB-1**

06:37:48.5  
06:37:49.6

I put \* \* .

**CAPT**

06:37:49.0  
06:37:50.3

okay. that's fine.

**CAPT**

06:37:51.0  
06:37:51.8

that's fine.

**2M**

06:38:53.0  
06:39:01.9

I have the U-S-C-G and um– (the) in the email for \* the company.

**CAPT**

06:39:02.4  
06:39:23.2

yeah so. so. coast guard \* \* \* coast guard \* \* the S-S-A-S (signature/manager) \* \* \* don't send anything yet.

**2M**

06:39:23.1  
06:39:28.9

no \* unless (we're) ready to go.

**CAPT**

06:39:27.8  
06:39:28.7

okay.

## Secondary and Electronic Communications

**CAPT-UHF**

06:39:47.3  
06:39:48.7

say chief mate.

**Primary Communications**

**CM**  
06:39:55.9 right here cap'n.  
06:39:56.5

**?**  
06:40:05.3 \* \* \*  
06:40:11.0

**CAPT**  
06:40:37.1 (give/get) me some eyes on three hold there.  
06:40:40.3

**CM**  
06:40:40.3 yes sir.  
06:40:41.3

**CAPT**  
06:40:41.0 let me know what's going on down there.  
06:40:42.3

**CM**  
06:40:42.3 okay.  
06:40:42.8

**CAPT**  
06:40:44.6 have somebody (observe).  
06:40:46.5

**CM**  
06:40:46.5 where it is comin' from \* \*. (seas on the deck)?  
06:40:48.8

**CAPT**  
06:40:48.6 yeah.  
06:40:49.2

**Secondary and Electronic Communications**

**CM-UHF?**  
06:39:49.6 yea cap.  
06:39:51.5

**CAPT-UHF**  
06:39:54.1 what's your location?  
06:39:55.9

**Primary Communications**

**2M**

06:40:49.6 oh from the uh- compass?  
06:40:51.2

**?**

06:40:51.4 yeah.  
06:40:51.8

**?**

06:41:13.2 sounds good (captain/here) \* \* .  
06:41:15.5

**2M**

06:41:38.7 \* \* \* .  
06:41:41.6

**CAPT**

06:42:23.5 don't worry about it.  
06:42:24.6

**2M**

06:42:24.7 (@3M) \* \* .  
06:42:25.7

**AB-1**

06:42:36.4 (do you think) \* \* \* I'm gunna stand up for a minute.  
06:42:40.5

**2M**

06:42:40.0 oh okay.  
06:42:40.8

**AB-1**

06:42:40.8 thank you.  
06:42:41.1

**Secondary and Electronic Communications**

**?-VHF?/UHF?**

06:42:22.2 \* \* \* .  
06:42:23.4

**M1**

06:43:40.2 [sound of electric telephone ringing.]  
06:43:41.8

## Primary Communications

**CAPT**  
06:44:34.1     alright @AB-1 you got some turns right now.  
06:44:35.9

**AB-1**  
06:44:36.5     mmm.  
06:44:36.9

**AB-1**  
06:44:38.3     what'd you wanna do captain– I got it right thirty.  
06:44:40.3

**CAPT**  
06:44:40.9     keep your rudder– rudder right twenty right now.  
06:44:44.1

## Secondary and Electronic Communications

**CAPT-ET**  
06:43:42.1     bridge. captain.  
06:43:42.7

**CAPT-ET**  
06:43:43.8     yup.  
06:43:44.0

**CAPT-ET**  
06:43:47.9     yup.  
06:43:48.8

**CAPT-ET**  
06:43:52.2     yes please.  
06:43:53.5

**CAPT-ET**  
06:43:55.1     alright now is @3AE1 there?  
06:43:57.1

**CAPT-ET**  
06:43:59.5     yup. I– I just want to know that we're pumping from  
06:44:05.0     port to starboard on the ramp tanks.

**CAPT-ET**  
06:44:16.4     alright. thank you very much.  
06:44:17.9

## Primary Communications

**AB-1**

06:44:44.0

right twenty (cap'n).

06:44:45.1

**AB-1**

06:44:48.9

(right twenty).

06:44:50.1

**CAPT**

06:44:50.1

okay.

06:44:50.8

**CAPT**

06:45:01.2

that's a small victory right there.

06:45:03.8

**2M**

06:45:06.0

once we uh— start comin' back over \* wind... (on) off of our uh starboard

06:45:16.6

side \* \* \* (./?)

**CAPT**

06:45:16.5

\* \* (level it up) and get \* over to starboard.

06:45:19.5

**2M**

06:45:19.4

yeah but we know how to fix that one.

06:45:21.7

**CAPT**

06:45:22.1

\* \* (a lot of) water in the cargo hold area.

06:45:28.6

**2M**

06:45:28.2

(well then) suck out the water.

06:45:32.9

**CAPT**

06:45:42.3

yup.

06:45:42.6

**2M**

06:45:58.0

oh the (stern/steering) light went out?

06:45:59.6

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:45:59.5  
06:46:00.1

yeah.

**2M**

06:46:00.1  
06:46:04.5

[sound of chuckle] (oh that's a/oh isn't that) \*. wasn't expecting that one.

**AB-1**

06:46:12.8  
06:46:14.5

[sound of grunt]

**CAPT**

06:46:15.1  
06:46:16.2

ya okay @AB-1?

**2M**

06:46:16.6  
06:46:18.4

you're gettin' a leg work out.

**2M**

06:46:21.1  
06:46:22.7

feelin' those thiiighs burn?

**M1/M2**

06:48:02.8  
06:48:04.7

[sound of multiple low frequency thuds in rapid succession.]

**CAPT**

06:48:04.8  
06:48:06.4

that's why I don't go out there.

**2M**

06:48:06.1  
06:48:06.4

no.

**CAPT**

06:48:06.5  
06:48:07.7

that's a piece of handrail right?

**2M**

06:48:07.8  
06:48:09.0

yup. you're right.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

06:48:09.0

(well) there ya go.

06:48:10.8

**2M**

06:48:10.8

(I think/I just) its just \*.

06:48:12.5

**CAPT**

06:48:13.0

\* \* \*.

06:48:15.2

**2M**

06:48:15.9

it must be bangin' around in there.

06:48:17.9

**CAPT**

06:48:18.2

\* \* \*.

06:48:21.3

**AB-1**

06:48:22.8

(yeah) bust ya head \* \*.

06:48:24.5

**CAPT**

06:48:24.5

right.

06:48:25.0

**2M**

06:48:28.7

probably a loose \*.

06:48:30.4

**2M**

06:48:34.2

\* \* (coffee has been) \*.

06:48:36.2

**CAPT**

06:48:36.4

\* \* \*.

06:48:38.9

**2M**

06:48:39.0

\* coffee? cream and sugar?

06:48:42.3

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

06:48:42.5 you can hook it up. do your thing. do your thing.  
06:48:45.5

**2M**

06:48:43.9 [sound of laugh]  
06:48:44.7

**2M**

06:48:45.5 I think \* \* .  
06:48:47.5

**CAPT**

06:48:48.1 they don't have any R-P-M on it right now so you can just stand by you  
06:48:52.7 don't have to be (there).

**AB-1**

06:48:52.6 oh okay (I know) \* \* (I can do it myself) \* \* .  
06:48:54.9

**CAPT**

06:48:54.9 just– jus– just– stay right here in the general area.  
06:49:00.1

**2M**

06:49:02.7 \* sugar is fine with the captain (right)?  
06:49:04.8

**AB-1**

06:49:05.4 give me the Splenda not the regular sugar.  
06:49:07.3

**2M**

06:49:07.5 no– no.  
06:49:08.2

**CAPT**

06:49:08.1 alright chief mate.  
06:49:09.2

**2M**

06:49:09.6 do you want... [voice is stepped on by UHF radio transmission.]  
06:49:10.5

## Secondary and Electronic Communications



**Primary Communications**

**AB-1**  
06:49:11.4 yes please.  
06:49:12.1

**2M**  
06:49:12.1 \* \*  
06:49:13.1

**2M**  
06:49:44.9 might be (little bumpy but coffee) \* \*. yep.  
06:49:49.2

**2M**  
06:50:12.8 \* (do for now).  
06:50:14.9

**2M**  
06:50:42.5 aww @EX2M's candy thing is broken.  
06:50:46.0

**CAPT**  
06:52:29.0 alright. I'm gunna be right back up. okay?  
06:52:31.9

**2M**  
06:52:31.6 okay.  
06:52:32.5

**Secondary and Electronic Communications**

**CM-UHF**  
06:49:10.5 (chief mate).  
06:49:11.7

**CAPT-UHF**  
06:49:12.8 ya got eyes on down there?  
06:49:15.0

**CM-UHF**  
06:49:15.6 \* \* \*.  
06:49:18.3

**CAPT-UHF**  
06:49:19.4 alright.  
06:49:20.4

## Primary Communications

**CAPT**

06:52:31.7  
06:52:33.9

if you need anything I'll be right back up.

**2M**

06:52:34.6  
06:52:36.2

okay \*.

**2M**

06:53:36.5  
06:53:39.2

\* \* \*.

**2M**

06:53:57.7  
06:54:21.0

on the *El Morro* we were on the same run. and uh one of the hurricanes developed right over San Juan (I think that/like that) \* \* (like) took a thirty-eight degree roll. oh my lord that was annoying [sound of quick laugh] (imagine that).

## Secondary and Electronic Communications

**M1**

06:52:43.1  
06:52:45.3

[sound of electric telephone ringing.]

**2M-ET**

06:52:48.2  
06:52:49.3

the bridge.

**2M-ET**

06:52:50.9  
06:52:51.3

alright.

**2M-ET**

06:52:53.4  
06:52:56.2

he's (at) his office real quick– he'll be right back up.

**2M-ET**

06:52:57.0  
06:53:00.5

try him in his office. he did go down.

**2M-ET**

06:53:01.3  
06:53:02.3

uhhh \*.

## Primary Communications

**AB-1**

06:54:20.9

\*\* (this ship) \*\* \*

06:54:27.6

**2M**

06:54:27.7

(hi/alright).

06:54:28.3

**AB-1**

06:54:30.2

\* (see what it looks like).

06:54:32.2

**2M**

06:54:32.1

(ehh).

06:54:32.8

**AB-1**

06:55:10.7

(how long we 'posed the be in this storm) \*\*?

06:55:12.7

**CAPT**

06:55:13.3

what's that?

06:55:14.1

**AB-1**

06:55:13.8

(how long) \* day \*\*.

06:55:15.2

## Secondary and Electronic Communications

**CAPT-ET?**

06:54:33.3

06:55:10.5

(it's) miserable right now. we got all the uhh– all the wind on the starboard side here. now a scuttle was left open or popped open or whatever so we got some flooding down in three hold– a significant amount. umm everybody's safe right now we're not gunna abandon ship– we're gunna stay with the ship. we are in dire straits right now. okay I'm gunna call the office and tell 'em \*\* . okay? umm there's no need to ring the general alarm yet– we're not abandoning ship. the engineers are tryin' to get the plant back. so we're workin' on it– okay?

## Primary Communications

**CAPT**  
06:55:15.7 should get better all the time.  
06:55:17.0

**CAPT**  
06:55:20.0 right now we're on the back side of it.  
06:55:21.5

**CAPT**  
06:55:25.2 okay?  
06:55:25.6

**AB-1**  
06:55:25.7 (uh huh/alright).  
06:55:26.2

**CAPT**  
06:55:37.5 put some lights on here second mate.  
06:55:39.8

**2M**  
06:55:39.8 alright.  
06:55:40.3

**CAPT**  
06:55:41.2 put some lights on here.  
06:55:42.5

**M1/M2**  
06:56:14.4 [multiple low frequency thuds and clashes, like metal crashing.]  
06:56:16.5

## Secondary and Electronic Communications

**CAPT-ET**  
06:56:01.3 chief status check.  
06:56:02.8

**CAPT-ET**  
06:56:04.2 yup.  
06:56:04.5

**CAPT-ET**  
06:56:08.0 (yo/yup).  
06:56:08.4

## Primary Communications

**2M**

06:56:17.6

06:56:20.1

\* \* (that was something) uhh?

**2M**

06:56:25.1

06:56:26.2

\* \* .

## Secondary and Electronic Communications

**CAPT-ET**

06:56:20.6

06:56:21.6

yea. I do.

**CAPT-ET**

06:56:24.4

06:56:25.1

I understand.

**CAPT-ET**

06:56:26.2

06:56:37.2

yup. look. what I'm gunna do is– I'm gunna um–  
I'm gunna call the office– let them know that we  
have a situation here and um– we will go from  
there.

**CAPT-ET**

06:56:40.6

06:56:43.7

yeah the mate's down walkin' about there.

**CAPT-ET**

06:56:44.5

06:56:46.8

are ya still pumpin' three hold?

**CAPT-ET**

06:56:52.1

06:56:53.6

alright (just).

**CAPT-ET**

06:56:54.7

06:56:55.0

yup.

**CAPT-ET**

06:57:02.8

06:57:03.2

yup.

## Primary Communications

**2M**  
06:57:32.2 they havin' trouble gettin' it back online?  
06:57:34.1

**CAPT**  
06:57:34.2 yeah because of the list.  
06:57:35.6

**2M**  
06:57:35.5 (uhh/oh).  
06:57:36.4

**2M**  
06:57:52.7 \* \* \*  
06:57:54.9

**2M**  
06:58:08.3 (with) a list like this (the whole time cargo) \*.  
06:58:10.6

## Secondary and Electronic Communications

**CAPT-ET**  
06:57:06.4 yup.  
06:57:06.6

**CAPT-ET**  
06:57:12.7 alright I gotya.  
06:57:14.3

**CAPT-ET**  
06:57:17.4 yeah.  
06:57:17.8

**CAPT-ET**  
06:57:20.1 yeah.  
06:57:20.4

**CAPT-ET**  
06:57:24.0 okay just keep tryin'.  
06:57:25.2

**CAPT-ET**  
06:57:26.1 I'm uh— I'm gunna give the office a shout and let  
06:57:29.2 'em know what we got.

## Primary Communications

?  
06:58:21.1 \* \* \* (second mate).  
06:58:24.3

**M1**  
06:59:46.7 [sound similar to hourly GPS alarm activating.]  
07:00:09.0

**2M**  
06:59:50.0 \* \* \* (see what that) \* (water) \* \* .  
06:59:58.1

**CAPT**  
07:00:37.1 wanna get me uh a piece of paper and a pencil or somethin'?  
07:00:40.3

**CAPT**  
07:01:58.9 say second mate.  
07:02:00.2

## Secondary and Electronic Communications

**CAPT-FBB**  
06:59:43.1 captain @DPA– captain @CAPT– Thursday  
07:00:16.8 morning zero-seven \* \* \* scuttle \* \* \* got a pretty  
good list \* \* \* I wanna uh (just touch) contact you  
verbally (again) everybody's safe \* \* \* .

**M1**  
07:00:02.4 [sound similar to sound power phone ringing.]  
07:00:04.8

**CAPT-FBB**  
07:01:04.9 this is a marine emergency. yes this is a– ah  
07:01:13.1 marine emergency and I am tryin' to uh also notify  
a Q-I.

**CAPT-FBB**  
07:01:35.8 are you connecting me (through) to a Q-I?  
07:01:37.8

**CAPT-FBB**  
07:01:51.6 yes ma'am.  
07:01:52.3

## Primary Communications

**2M**

07:02:00.4  
07:02:00.9

yeah.

**CAPT**

07:02:01.9  
07:02:03.8

let me get this (back) to ya.

**CAPT**

07:02:04.3  
07:02:06.6

I'm gunna take a pen \*.

**CAPT**

07:02:19.5  
07:02:23.2

let me have a couple pieces of tape? so I can tape this paper down

**CAPT**

07:03:12.4  
07:03:13.3

what's this position?

## Secondary and Electronic Communications

**CAPT-FBB**

07:02:27.9  
07:02:30.2

yes mam my name is @CAPT. [Name, first - last.]

**CAPT-FBB**

07:02:32.3  
07:02:33.9

@CAPT. [Name, first - middle initial - last.]

**CAPT-FBB**

07:02:41.9  
07:02:42.9

ship's master.

**CAPT-FBB**

07:02:52.1  
07:02:53.3

*El Faro.*

**CAPT-FBB**

07:02:58.4  
07:03:03.4

(uh man/uh ma'mm) the cl- the clock is ticking-  
can I please speak with (the/a) Q-1?

**CAPT-FBB**

07:03:04.9  
07:03:11.5

*El Faro.* echo- lima- space- foxtrot- alpha-  
romeo- oscar. *El Faro.*



## Primary Communications

**2M**

07:03:14.5

our current one.

07:03:15.8

**CAPT**

07:03:15.4

okay.

07:03:15.7

## Secondary and Electronic Communications

**CAPT-FBB**

07:03:25.4

phone number.

07:03:26.3

**CAPT-FBB**

07:03:27.0

@. [phone number redacted.]

07:03:36.9

**CAPT-FBB**

07:03:43.0

that's my globe and let me get you the mini-M.

07:03:45.8

**CAPT-FBB**

07:03:47.9

you ready to copy?

07:03:49.6

**CAPT-FBB**

07:03:50.9

@. [phone number redacted.]

07:03:59.9

**?-UHF?**

07:04:38.1

\* \* \*

07:04:40.1

**CAPT-UHF**

07:04:43.2

hello chief mate— you on this one?

07:04:45.1

**CM-UHF**

07:04:45.7

go ahead captain.

07:04:46.6

**CAPT-UHF**

07:04:47.6

yea. can you tell what the level is in that hold?

07:04:50.1

## Primary Communications

**CAPT**  
07:05:28.5     okay.  
07:05:29.3

**M1**  
07:05:33.2     [A sound of mid frequency electronic beeps occurring at an irregular  
07:39:41.8     intervals. This continued for duration of recording.]

**?**  
07:05:52.7     \*.  
07:05:53.5

## Secondary and Electronic Communications

**CM-UHF**  
07:04:52.1     [Initially a sound similar to other voices in the  
07:04:56.1     background when the UHF mic was keyed.] we're  
                  leanin' over pretty good to port.

**CAPT-UHF**  
07:04:58.2     yea– I'm– I'm sure it is. can you tell if its  
07:05:03.6     decreasing or increasing?

**CM-UHF**  
07:05:04.5     I can't tell (captain) \* \* seems as if it's goin' down \*  
07:05:09.4     \*.

**CAPT-UHF**  
07:05:09.8     okay. all understood.  
07:05:11.3

**CAPT-UHF**  
07:05:12.9     and uh mate– what else do you see down there?  
07:05:16.9     what else do you see?

**M1**  
07:05:19.5     [sound of UHF radio mic keyed– but no voice  
07:05:20.1     transmission accompanying.]

## Primary Communications

**CAPT**

07:06:27.0 the position.  
07:06:28.1

**CAPT**

07:06:28.3 say second mate.  
07:06:29.2

**2M**

07:06:29.3 yes.  
07:06:29.6

**CAPT**

07:06:29.8 (uh) second mate uh that position's fine latitude and longitude. how  
07:06:38.8 'bout our range and bearing from like San Miguel Island.

**CAPT**

07:06:40.4 or San Salvador. whatever that island is there.  
07:06:43.7

**2M**

07:06:48.6 San Salvador.  
07:06:50.7

## Secondary and Electronic Communications

**CAPT-FBB**

07:05:59.6  
07:06:20.5

I have a marine emergency and I would like to speak with a Q-I. we had a hull breach– a scuttle blew open during a storm– we have water down in three hold– we have a heavy list– we've lost the main propulsion unit– the engineers can not get it goin'. can I speak with a Q-I please?

**CAPT-FBB**

07:06:56.2  
07:07:02.9

hello this is @CAPT [Name, first - middle initial - last.] master. yes this is @CAPT [Name, first - middle initial - last.] on the *El Faro* whom am I speaking with?

**CAPT-FBB**

07:07:06.9  
07:07:08.9

hello captain @DPA– captain @CAPT.

**Primary Communications**

**2M-ET**  
07:07:29.8 bridge.  
07:07:31.0

**2M-ET**  
07:07:33.0 \* \* \*  
07:07:35.3

**2M-ET**  
07:07:37.4 \* \* \*  
07:07:39.6

**Secondary and Electronic Communications**

**CAPT-FBB**  
07:07:09.7 sir.  
07:07:10.3

**CAPT-FBB**  
07:07:11.6 a sc-  
07:07:12.9

**CAPT-FBB**  
07:07:15.4 yea. I'm real good. we have uhh- secured the  
07:07:59.6 source of the water coming in to the vessel. uh a  
scuttle- was blown open uh- by the force of the  
water perhaps- no one knows. can't tell. uh it's  
since been closed. however- uh- three hold's got  
considerable amount of water in it. uh we have a  
very- very- healthy port list. the engineers cannot  
get lube oil pressure on the plant therefore we've  
got no main engine . and let me give you um a  
latitude and longitude. I just wanted to give you a  
heads up before I push that- push that button.

**M1**  
07:07:19.2 [sound of electric telephone ringing.]  
07:07:21.5

**M1**  
07:07:25.8 [sound of electric telephone ringing.]  
07:07:27.6

## Primary Communications

**2M-ET**  
07:07:42.2 (okay).  
07:07:42.9

**2M-ET**  
07:07:48.3 \* \* \*.  
07:07:50.2

**CAPT**  
07:08:20.7 how many miles are we to that?  
07:08:22.5

**2M**  
07:08:22.6 hang on I haven't had a chance to look.  
07:08:25.6

**2M**  
07:08:33.7 forty-eight miles to San Salvador the closest point \* \* .  
07:08:36.3

## Secondary and Electronic Communications

**CAPT-FBB**  
07:08:03.6 our position is– latitude twenty-three degrees  
07:08:20.8 twenty-six point three minutes north– longitude–  
zero-seven-three degrees fifty-one decimal six  
west.

**CAPT-FBB**  
07:08:25.9 yup. the– the crew is safe. right now we're tryin' to  
07:08:35.1 save the ship (now). but uh all available hands.

**CAPT-FBB**  
07:08:36.4 we are forty-eight miles east of San Salvador.  
07:08:39.4

**CAPT-FBB**  
07:08:44.2 we are taking every measure to take the list off. by  
07:08:55.9 that I mean pump out that pump out that hold the  
best we can but we are not gaining ground at this  
time.

**CAPT-FBB**  
07:09:01.1 uhhh.  
07:09:01.7

## Primary Communications

**CAPT**  
07:10:33.1 what's the millibars?  
07:10:34.4

## Secondary and Electronic Communications

**CAPT-FBB**  
07:09:05.2 right now it's a little hard to tell because all the  
07:09:10.5 wind is that on that side too so we got a good wind  
heel goin'.

**CAPT-FBB**  
07:09:11.9 but it's not gettin' any better.  
07:09:13.7

**CAPT-FBB**  
07:09:16.0 and I'm gonna guess uh- yeah um- I'm- I'm- go  
07:09:20.3 'head sir go 'head- go 'head.

**CAPT-FBB**  
07:09:23.7 alright um- priorities. we um- gonna- gonna stay  
07:09:49.8 with the ship there na- no one's panicking um  
everybody's been made aware. um our- our safest  
bet is to stay with the ship during this particular  
time- the weather is ferocious out here. and uhh-  
we're- we're- gonna stay with the ship. now as-  
go 'head sir.

**CAPT-FBB**  
07:09:54.6 right. the uh- state of the weather.  
07:09:59.8

**CAPT-FBB**  
07:10:08.4 (the) swell is out the northeast.  
07:10:14.0

**CAPT-FBB**  
07:10:15.6 a solid- solid ten to twelve feet (over) spray high  
07:10:32.1 winds very poor visibility that's the best I can give  
ya right now- I'll give ya a barometric pressure.

**M1**  
07:10:33.6 [sound of electric telephone ringing.]  
07:10:35.6

**Primary Communications**

**2M**  
07:10:34.8  
07:10:36.4

nine-fifty-eight point eight.

**CAPT**  
07:10:38.3  
07:10:39.7

you wanna get that phone?

**2M**  
07:10:39.5  
07:10:39.8

yea.

**CAPT**  
07:10:42.7  
07:10:43.7

\* (something).

[Through 07:12:29.6, the CAPT's electronic communications have been moved to the left column for clarity.]

**CAPT-FBB**  
07:10:49.2  
07:10:49.5

uh...

**CAPT-FBB**  
07:10:51.8  
07:10:56.0

betcha it's all of fifteen– fifteen degrees.

**Secondary and Electronic Communications**

**M1**  
07:10:39.7  
07:10:41.3

[sound of electric telephone ringing.]

**2M-ET**  
07:10:43.9  
07:10:44.3

bridge.

**2M-ET**  
07:10:46.2  
07:10:48.1

he he's on the phone right now.

**2M-ET**  
07:10:55.7  
07:11:00.1

uh we're workin' on it (but) I mean the wind is pushing us over.

## Primary Communications

**CAPT-FBB**

07:10:59.3

07:11:03.1

ten. ten to fifteen degrees but a lot of that's with the wind heel.

**CAPT-FBB**

07:11:10.5

07:11:15.6

(I can't) can't determine that at this time 'cause (three) \*.

**CAPT-FBB**

07:11:24.9

07:11:32.4

that that is correct. the engine room has informed me that they are pumping that hold. there's a significant amount of water in there.

**CAPT-FBB**

07:11:47.6

07:11:48.4

that's correct.

**CAPT-FBB**

07:11:59.7

07:12:12.3

yup what– what– I wanted to do I wanna push that button– I wanna push that S-S-A-S button– I wanna send some alarms (in/on) our G-M-D-S-S console. I wanna wake everybody up.

**CAPT-FBB**

07:12:16.0

07:12:24.4

okay. I– I just wanted to give you that courtesy so you wouldn't be blindsided by it and have the opportunity– everybody's safe right now we're in survival mode now.

## Secondary and Electronic Communications

**2M-ET**

07:11:02.4

07:11:06.0

um he's on the phone right now with captain @DPA.

**2M-ET**

07:11:08.4

07:11:10.6

there's nothing we can do from up here.

**2M-ET**

07:11:14.2

07:11:18.4

\* (overboard) segregated ballast is about all we can do.

**2M-ET**

07:11:22.3

07:11:29.6

'till the wind dies down. do you want \* \* \* I'll have him call you when he gets off the phone.



**Primary Communications**

**CAPT-FBB**

07:12:29.6 yup. thank you sir.  
07:12:31.1

**CAPT**

07:12:33.1 alright second mate– send that message.  
07:12:35.8

**2M**

07:12:38.8 (alright).  
07:12:39.7

**2M**

07:12:40.7 to the coast guard?  
07:12:41.9

**CAPT**

07:12:42.4 yup.  
07:12:42.8

**2M**

07:12:43.0 okay.  
07:12:43.3

**2M**

07:12:44.4 \* \* \* email \* \* \* .  
07:12:52.9

**CAPT**

07:12:53.0 alright now push– push the S-S-A-S button.  
07:12:56.3

**2M**

07:12:57.5 (roger).  
07:12:57.9

**Secondary and Electronic Communications**

**M1**

07:12:59.5 [high frequency tone consistent with activation of  
07:15:58.0 non-routine message transmission on SAT-C  
terminal.]

## Primary Communications

**CAPT**

07:13:02.2 well all hell's gunna break loose with the messaging and stuff like that.  
07:13:05.5

**2M**

07:13:08.7 distress button's been activated.  
07:13:10.3

**2M**

07:13:40.7 distress alert completed– message (sent/send) fail? oh my distress–  
07:13:48.0 my homemade one.

**CAPT**

07:13:48.2 (what's that again)?  
07:13:50.0

**2M**

07:13:50.2 (this one \*) homemade one \*.  
07:13:52.7

**CAPT**

07:13:52.6 (what's that one up there doin'?)  
07:13:54.7

**CAPT**

07:13:55.3 wake everybody up. wake 'em up. [exclaimed in a urgent, almost angry  
07:13:57.3 tone.]

**CAPT**

07:13:60.0 we're gunna be good. we're gunna make it right here \* \*.  
07:14:03.3

**CAPT**

07:14:17.5 so who's that– that you talked to from the engine room?  
07:14:19.9

**2M**

07:14:19.5 oh (from) the uh chief. [CE]  
07:14:20.7

**2M**

07:14:22.3 he's just tellin' us the same thing. he can't do anything with this list.  
07:14:25.1

## Secondary and Electronic Communications

## Primary Communications

**CM**  
07:14:54.1 I think that water level's rising captain.  
07:14:56.2

**CAPT**  
07:14:56.2 (okay). do you know where it's comin' from?  
07:14:58.1

**CM**  
07:14:58.1 \* (at) first the chief said something hit the fire main. got it ruptured.  
07:15:05.9 hard.

**CAPT**  
07:15:05.6 um there's no way to secure that?  
07:15:07.3

**CM**  
07:15:08.2 we don't know if they've (seen/still have) any pressure on the fire main  
07:15:21.6 or not. don't know where s'sea— between the sea suction and the hull or  
what uh but anything I say is a guess.

## Secondary and Electronic Communications

**CAPT-ET**  
07:14:34.0 yeah chief @CAPT here.  
07:14:35.2

**CAPT-ET**  
07:14:39.4 yup.  
07:14:39.7

**CAPT-ET**  
07:14:40.9 yeah we're pumpin' your pumpin'.  
07:14:42.6

**CAPT-ET**  
07:14:45.1 yeah the mate's down there here he is right here.  
07:14:47.5

**CAPT-ET**  
07:14:50.4 call ya back.  
07:14:51.1

## Primary Communications

**CAPT**

07:15:21.2  
07:15:21.8

alright.

**CM**

07:15:21.8  
07:15:22.5

(roger).

**CM**

07:15:22.1  
07:15:30.4

but it was startin' to (go out there) (actually/initially) \* (picked 'em up) \*  
(deck) so I came in here and dogged that door tight \* \* (shook/shake).

**CAPT**

07:15:30.4  
07:15:31.5

don't open it (again).

**CAPT**

07:15:43.4  
07:15:45.5

this is the chief he just wants a status update.

**CAPT**

07:15:48.2  
07:15:53.0

alright \* \* \* (acknowledge) (receipt/received).

## Secondary and Electronic Communications

**CAPT-ET**

07:15:36.3  
07:15:36.9

alright chief. [CE]

**CAPT-ET**

07:15:37.9  
07:15:43.1

the uh— chief mate's here I'm gunna let you talk  
with him and he can give it to you in his own  
words. alright?

**CM-ET**

07:15:47.1  
07:15:56.7

hello chief. \* it's not the list it's the (damage) \* \* not  
going down I closed that water tight door on (four)  
deck I don't think we should open it again.

**CM-ET**

07:15:58.6  
07:15:59.1

yes.

## Primary Communications

**2M**

07:15:59.2  
07:16:00.9

\* \*

**CM**

07:16:11.7  
07:16:14.8

bilge alarm in two alpha. goin' to check (it).

**CM?**

07:16:15.4  
07:16:18.1

\* (not goin'/goin') on second deck (and opening) the scuttle.

**CM?**

07:16:21.2  
07:16:23.7

\* wanna do that.

**CM**

07:16:25.3  
07:16:25.7

uh.

**CM**

07:16:29.0  
07:16:41.0

I mean they can open up all of them (and suck the holds) the same time and one common suction they they can suck just (one/on) two alpha or ya know if three's not goin' down. [during the time the CM was speaking, the CAPT stated "(yea)" and "yea."]

**CM?CAPT?**

07:16:40.5  
07:16:42.0

(don't know).

## Secondary and Electronic Communications

**CM-ET**

07:16:02.2  
07:16:04.3

no. nobody's checked two alpha.

**CM-ET**

07:16:06.4  
07:16:07.0

roger.

**CM-ET**

07:16:08.1  
07:16:08.6

got it.

## Primary Communications

**CM**

07:16:43.2

07:16:45.3

(I don't know) what else to suggest.

**CM**

07:17:20.3

07:17:25.6

I buttoned that door up as hard as I could and I don't I don't know what else I can do.

**CAPT**

07:17:25.2

07:17:25.5

yeah.

## Secondary and Electronic Communications

**CAPT-ET**

07:16:45.4

07:16:51.5

hey chief [CE] @CAPT here. can you suck on all of all of the uh all of the cargo holds?

**CAPT-ET**

07:16:54.1

07:16:55.7

right I gotchya– I gotchya.

**CAPT-ET**

07:16:57.2

07:16:57.7

yea.

**CAPT-ET**

07:16:59.2

07:17:00.2

oh yeah I know.

**CAPT-ET**

07:17:02.5

07:17:03.8

yeah. (uh).

**CAPT-ET**

07:17:04.1

07:17:06.1

you think the list is getting worse?

**CAPT-ET**

07:17:06.2

07:17:07.1

ya me too.

**CAPT-ET**

07:17:11.2

07:17:11.6

okay.

## Primary Communications

**CM**

07:17:26.2 not goin' on deck.  
07:17:27.3

**CAPT**

07:17:27.5 nuh– nuh– nuh– nuh– no.  
07:17:28.9

**CM**

07:17:31.1 @SUP-1 was suggesting (uh) like rig a wilden pump...I'm like... where?  
07:17:36.6 through the scuttle?

**?**

07:17:36.4 \* \* (around).  
07:17:38.7

**?**

07:17:44.0 \* \* \*.  
07:17:48.6

**?**

07:17:48.8 \*.  
07:17:49.4

**?**

07:17:51.4 consider ourselves \* \*.  
07:17:54.3

**?**

07:17:52.9 \* no R-P-M \* \* we can't do anything.  
07:17:56.4

**CAPT**

07:17:56.7 the uh—  
07:17:57.6

**CAPT**

07:17:59.5 the cars that are floating in three hold...  
07:18:01.3

**CM**

07:18:01.4 there are.  
07:18:02.0

## Secondary and Electronic Communications

## Primary Communications

**CM**

07:18:02.5 they're subs.  
07:18:03.2

**CAPT**

07:18:03.2 [sound of laughter]  
07:18:03.8

**CAPT**

07:18:05.0 um when you went down there before the– the fire main– was there  
07:18:13.1 anything near the fire \* \*?

**CM**

07:18:13.5 (when/I mean) I saw the water level's too high (the) fire main's right  
07:18:19.4 below the water dark black water.

**CM?**

07:18:19.4 and I saw cars bobbing around.  
07:18:21.9

**CAPT**

07:18:22.0 (think) they coulda come through there?  
07:18:24.2

**CM?**

07:18:22.1 (do you think anything).  
07:18:23.3

**CM**

07:18:24.1 yea there's fire main in the aft end \* water could have...  
07:18:28.0

**CM?**

07:18:27.3 could have.  
07:18:28.0

**CAPT**

07:18:28.2 okay.  
07:18:28.6

**CAPT**

07:18:35.1 so what's the only wha– what option do we have to close that valve so  
07:18:42.3 we don't a free communication with the sea? \* \*.

## Secondary and Electronic Communications



## Primary Communications

**CM**  
07:18:42.2 [sound similar to a stutter] isolate the fire main.  
07:18:44.9

**CAPT**  
07:18:44.9 ya.  
07:18:45.3

**CM**  
07:18:45.3 in the engine room.  
07:18:46.1

**CAPT**  
07:18:46.3 yup.  
07:18:46.7

**CM**  
07:18:47.5 from that from the uh...  
07:18:49.3

**CM**  
07:18:51.4 engine room they can seg– segregate the fire main cutout.  
07:18:54.7

**M1**  
07:18:57.2 [sound similar to UHF radio being turned on.]  
07:18:57.7

## Secondary and Electronic Communications

**CAPT**  
07:18:56.6 hey first.  
07:18:57.7

**CAPT-ET**  
07:18:58.0 yea can you... isolate the fire main from down in  
07:19:07.1 the uh engine room? the fire pump? isolate it?  
'cause that may be the root cause of the water  
comin' in.

**CAPT-ET**  
07:19:09.1 yeah.  
07:19:09.7

## Primary Communications

**CAPT**

07:19:12.4  
07:19:14.0

is there anything else you want me to tell 'em?

**CM**

07:19:14.0  
07:19:16.1

I agree with that I just \* \*.

**CAPT**

07:19:16.0  
07:19:18.0

that's our last \* \*.

**CM**

07:19:16.6  
07:19:21.0

\* \* (cutout) on the engine room side fire main goin' forward.

**CAPT**

07:19:20.9  
07:19:21.2

yeah.

**CAPT**

07:19:41.5  
07:19:43.4

'kay what else needs to be (there/done/secured)?

**CAPT**

07:19:44.1  
07:19:47.4

that's it \* (as far as we can) \* \*.

**CM**

07:19:45.3  
07:20:03.8

(pump all holds/all- all- all) all the bilge and ballast pumps (are/down) there \* \* \* starboard side \* \* \* those valves should be closed (when you're ready) \* (holds/that's) (all there is in the) \* engine (room).

## Secondary and Electronic Communications

**CAPT-ET**

07:19:10.5  
07:19:11.8

hold on a second.

**CAPT-ET**

07:19:21.5  
07:19:36.9

say first. on the on the engine room side the isolation valve suction fire pump (kindly/highly) secure it isolate it on your side so there's no free communication from the sea. alright. thank you.

## Primary Communications

**AB-1**

07:20:06.2  
07:20:07.4

\*

**AB-1**

07:20:07.7  
07:20:10.6

\* \* (cheatin' us) \* (here).

**M1**

07:20:08.1  
07:20:15.2

[sound similar to electronic white noise.]

**CAPT**

07:20:12.6  
07:20:16.0

uh \* (down below/\*) right now.

**CM**

07:20:14.0  
07:20:15.6

\* secure this?

**CM**

07:20:16.0  
07:20:20.1

should I just secure these instead of (turnin' them up/burnin' 'em out)?  
all of 'em?

**CAPT**

07:20:19.7  
07:20:22.3

go ahead and secure the (panels) so the water doesn't (get to 'em).

**CM**

07:20:40.2  
07:20:52.7

yeah um– my concerns are (of course) stability (I have no/and no)  
concept of how much water (may be) sittin' down there \* \* (can't/very)  
difficult determine \*.

**CAPT**

07:20:49.0  
07:20:49.2

yeah.

**CAPT?**

07:20:53.5  
07:20:58.5

\* \* bilge \* \* \*.

## Secondary and Electronic Communications

## Primary Communications

**CM**

07:21:00.3 what did he say when he said about pumpin' 'em all.  
07:21:03.4

**CAPT**

07:21:04.3 yeah but if you pump and uh you catch air then the whole thing is—  
07:21:08.4

**CM**

07:21:08.4 well yeah two port— two A port \* whatever.  
07:21:11.2

**2M**

07:21:09.9 \* (right) \*  
07:21:10.9

**2M?**

07:21:16.8 \* \* .  
07:21:18.5

**CAPT**

07:21:19.2 don't think it's gettin' any better.  
07:21:21.3

**2M**

07:21:21.5 \* \* (drifting) west-southwest.  
07:21:24.3

**CAPT**

07:21:53.4 alright.  
07:21:53.9

## Secondary and Electronic Communications

**CAPT-ET**

07:22:03.5 alright captain here chief there?  
07:22:06.1

**CAPT-ET**

07:22:08.2 alright who's this (@SUP-1)?  
07:22:09.4

**CAPT-ET**

07:22:10.2 alright. what did you see down there when you  
07:22:14.2 went and looked through that scuttle?

## Primary Communications

**CAPT-ET**

07:22:19.2

07:22:19.4

**CAPT-ET**

07:22:30.8

07:22:31.1

**CAPT-ET**

07:22:49.0

07:22:49.4

**CAPT-ET**

07:22:53.3

07:22:54.6

**CAPT-ET**

07:22:56.8

07:23:02.5

**CAPT-ET**

07:23:07.9

07:23:08.3

**CAPT-ET**

07:23:22.7

07:23:23.8

**CAPT-ET**

07:23:32.0

07:23:34.9

**CAPT-ET**

07:23:40.8

07:23:41.5

**CAPT-ET**

07:23:47.4

07:23:51.8

**CAPT-ET**

07:23:54.5

07:24:00.1

## Secondary and Electronic Communications

okay.

alright.

alright.

it's lookin' pretty nasty.

(uh/on) the down flooding angle? um that I don't have an answer for (ya).

yup.

what's it called again?

okay we'll check that. (it's/that's) in the chief's office?

alright thank you.

um no. I mean we still got reserve buoyancy and stability.

alright we're gunna ring the general alarm here and (wake/get) everybody up \* \* \*.

## Primary Communications

**CAPT-ET**

07:24:00.8

07:24:03.8

**CAPT-ET**

07:24:05.3

07:24:08.5

**CAPT-ET**

07:24:10.7

07:24:11.8

**CAPT-ET**

07:24:16.8

07:24:20.7

**CAPT-ET**

07:24:23.5

07:24:23.7

**CAPT-ET**

07:24:25.4

07:24:31.0

**CAPT-ET**

07:24:34.5

07:24:34.7

**CAPT-ET**

07:24:36.1

07:24:37.1

**CAPT-ET**

07:24:42.0

07:24:47.0

**CAPT-ET**

07:24:51.0

07:24:52.4

**CAPT-ET**

07:24:58.3

07:25:01.7

## Secondary and Electronic Communications

alright the office has been notified. \*.

we're definitely not in good shape right now.

yeah.

yeah. just tryin' to control that list see where the water's comin' from.

yeah.

now the— can you isolate the fire pump from down there on the engine room side?

okay.

are ya gettin' anything?

yeah that's... (my god).

yup. that would be it.

guy on second deck to make a round. yup. got a guy right here.

## Primary Communications

**CAPT**  
07:25:15.9 \* just make a round two deck– see what you can see. this isn't gettin'  
07:25:25.7 any better. you alright?

**CM**  
07:25:25.7 yeah I'm not sure I wanna go on second deck. I'll open a door down  
07:25:31.6 there and look out.

**CAPT**  
07:25:31.2 that's fine.  
07:25:32.3

**CM**  
07:25:32.2 \* \* chest deep \* (water/washin') \* \* .  
07:25:34.3

**CAPT**  
07:25:34.2 \* \* \* on the deck (right there).  
07:25:37.0

**CM**  
07:25:36.6 alright.  
07:25:37.0

**CM**  
07:25:59.1 let me grab someone to come with me.  
07:26:01.6

**CAPT**  
07:26:01.6 (okay– okay).  
07:26:04.4

**CAPT**  
07:26:06.2 \* see those numbers?  
07:26:08.3

## Secondary and Electronic Communications

**CAPT-ET**  
07:25:06.2 alright. well. he– he's not gunna open anything up  
07:25:11.0 that's already shut.

**CAPT-ET**  
07:25:12.7 yeah. okay.  
07:25:15.2

## Primary Communications

**CAPT**

07:26:08.4 (everybody's/ya know where those) numbers are? the emergency  
07:26:14.6 numbers they're on the \* \*.

**2M**

07:26:13.2 yeah it's hangin' up on the uh \* \* by the chair.  
07:26:16.4

**CAPT**

07:26:14.9 no I don't see it.  
07:26:16.1

**CAPT**

07:26:16.7 by the chhh– oh I got ya. on the vertical bulkhead. okay.  
07:26:19.5

**M1**

07:26:26.5 [sound of UHF radio being turned on.]  
07:26:26.9

**CAPT**

07:27:04.1 yeah. all is fine. when he's got a minute just let him know (I'm lookin' to)  
07:27:11.1 talk with him but let everybody know I'm gunna ring the general alarm.

## Secondary and Electronic Communications

**CAPT-UHF**

07:26:27.9 hey mate chief mate. (this is/just a) heads up I'm  
07:26:35.4 gunna ring the general alarm. get ya muster while  
your down there. muster all mate.

**CM-UHF**

07:26:36.9 roger \* \*.  
07:26:38.1

**CAPT-ET**

07:26:49.7 alright captain here. just want to let you know I am  
07:27:02.5 going to ring the general alarm. I am going to ring  
the general alarm. (you don't have to/ya know  
we're not gunna) abandon ship or anything just  
yet. alright we're gunna stay with it. is the chief  
there?



## Primary Communications

**CAPT**

07:27:12.5

yup.

07:27:12.8

**CAPT**

07:27:15.6

ring it. [shouted very loudly]

07:27:16.1

**M1**

07:27:16.2

[sound of high frequency bell ringing, the general alarm bell.]

07:27:28.3

**CAPT**

07:27:27.8

there ya go.

07:27:29.0

**?**

07:27:44.2

(well)

07:27:44.6

## Secondary and Electronic Communications

**?-UHF**

07:28:10.9

(chief mate).

07:28:11.9

**CAPT-UHF**

07:28:13.5

yup. go ahead mate.

07:28:14.9

**CAPT-UHF**

07:28:15.5

go ahead mate.

07:28:16.4

**CM-UHF**

07:28:17.2

(everybody) \* starboard side.

07:28:19.1

**CAPT-UHF**

07:28:26.7

all understood.

07:28:27.8

**AB-1**

07:28:28.0

can't come back over.

07:28:30.2

## Primary Communications

**CAPT**

07:28:30.3

hold on a sec. take it easy there.

07:28:33.0

**AB-1**

07:28:39.7

\*\* (I'm mean) \*\*\* @CAPT \*\*\*. [An unintelligible background conversation between AB-1 and 2M was taking place.]

07:28:46.0

**2M**

07:28:47.5

yeah.

07:28:47.7

**M1**

07:28:58.7

[Sound of mid frequency electronic beep. The beep occurred about once every five seconds until the end of the recording.]

07:39:41.8

## Secondary and Electronic Communications

**?-UHF**

07:28:32.1

cap'n you gettin' ready to abandon ship? \*\*.

07:28:34.8

**CAPT-UHF**

07:28:37.8

yeah what I'd like to make sure everybody has is their immersion suits and uh— stand by. get a good head count. good head count.

07:28:49.4

**?-UHF**

07:28:51.2

\*\* (muster(d) sir).

07:28:52.9

**?-UHF**

07:28:53.0

[sound similar to unintelligible conflicting UHF radio transmissions and squelch.]

07:28:56.9

**CAPT-UHF**

07:28:56.3

\* your muster location.

07:28:58.2

**?-UHF**

07:29:04.0

\*\* (radio/ready) \* (cap'n).

07:29:06.9

## Primary Communications

?  
07:29:19.4 \* \* \*. [At this time there was an unintelligible conversation taking place  
07:29:20.6 between the 2M and AB-1.]

**2M**  
07:29:21.9 (alright I got containers in the water). [yelled]  
07:29:23.9

**AB-1**  
07:29:22.0 \* \* \*.  
07:29:23.1

**CAPT**  
07:29:23.7 alright.  
07:29:24.0

**CAPT**  
07:29:28.8 alright let's go ahead and ring it— ring the abandon ship.  
07:29:32.3

**M1/M2**  
07:29:33.3 [sound of a high frequency bell ringing in seven pulse tones.]  
07:29:40.0

**M1/M2**  
07:29:40.0 [continuous sounding of a high frequency bell for about eight seconds.]  
07:29:47.9

**CAPT**  
07:29:53.1 tell 'em we're goin' in. [spoken in a raised voice]  
07:29:54.9

## Secondary and Electronic Communications

**CAPT-UHF**  
07:29:08.2 alright well get a head count. make sure we got a  
07:29:11.3 head count.

**?-UHF?**  
07:29:14.5 \* \* \*.  
07:29:18.8

**CAPT-UHF**  
07:29:18.7 sure.  
07:29:19.1

## Primary Communications

**2M**

07:29:57.1  
07:29:59.3

can I (get my) vest?

**CAPT**

07:29:59.2  
07:30:01.5

yup. bring mine up too and bring one for @AB-1.

**AB-1**

07:30:01.1  
07:30:03.2

(I need 'em too/need two).

**AB-1**

07:30:02.6  
07:30:03.1

please. [yelled]

**CAPT**

07:30:03.3  
07:30:05.3

okay buddy relax. go 'head second mate.

**CAPT**

07:30:16.3  
07:30:17.4

bow is down.

**CAPT**

07:30:19.4  
07:30:20.4

bow is down.

**?**

07:30:21.2  
07:30:22.0

\*.

**?**

07:30:22.2  
07:30:23.0

(I got lanterns).

**CAPT**

07:30:23.2  
07:30:23.9

I got nothing.

**CAPT**

07:30:24.2  
07:30:25.2

do you think you can make it?

## Secondary and Electronic Communications

## Primary Communications

?  
07:30:25.5  
07:30:26.0

yeah.

?  
07:30:26.1  
07:30:27.0

sure go 'head.

**AB-1**  
07:30:27.8  
07:30:29.4

gotta get my wallet and medicine and stuff.

**CAPT**  
07:30:54.4  
07:30:55.3

go 'head @AB-1.

?  
07:30:56.8  
07:30:57.9

\*.

## Secondary and Electronic Communications

**?-UHF?**  
07:30:37.6  
07:30:42.8

[sound similar to a garbled UHF transmission.]

**CAPT-UHF**  
07:30:43.9  
07:30:45.7

alright chief mate– chief mate.

**?-UHF**  
07:31:01.6  
07:31:02.9

(go 'head/hey hey) cap'n. [yelled]

**CAPT-UHF**  
07:31:03.5  
07:31:08.4

yeah– yeah– yeah– get into your get into your rafts  
\* \* throw all your rafts (in/to) the water. [yelled  
throughout]

**?-UHF**  
07:31:10.9  
07:31:13.1

throw the rafts in the water– roger.

**Primary Communications**

**AB-1**  
07:31:23.5 (\* /cap).  
07:31:24.0

**AB-1**  
07:31:27.1 cap.  
07:31:27.6

**AB-1**  
07:31:40.9 cap.  
07:31:41.3

**CAPT**  
07:31:41.6 what?  
07:31:42.1

**CAPT**  
07:31:53.3 come on @AB-1. gotta move. (we) gotta move. you gotta get up. you  
07:32:00.8 gotta snap out of it– and we gotta get out.

**AB-1**  
07:32:01.1 okay.  
07:32:01.5

**CAPT**  
07:32:01.4 come up.  
07:32:01.9

**AB-1**  
07:32:01.9 okay.  
07:32:02.4

**AB-1**  
07:32:12.7 help me.  
07:32:13.7

**Secondary and Electronic Communications**

**CAPT-UHF?**  
07:31:18.2 everybody– everybody. get off. get off the ship  
07:31:23.4 stay together. [yelled throughout]

**?-RDO**  
07:31:34.8 \* \* \*. [unintelligible UHF radio transmission  
07:31:40.1 captured away from any microphone.]

## Primary Communications

**CAPT**

07:32:22.1 you gotta get to safety @AB-1 [yelled] ya gotta get to safety @AB-1.  
07:32:26.1

**?**

07:33:41.8 cap. captain. [yelled]  
07:33:44.4

**CAPT**

07:33:44.5 what?  
07:33:45.2

**?**

07:33:45.5 ya alright?  
07:33:46.0

**CAPT**

07:33:46.0 yep.  
07:33:46.6

**?**

07:33:49.2 \* \* \*?  
07:33:50.7

**?**

07:33:54.2 \* \* \*.  
07:33:55.7

**?**

07:34:01.6 \* \* \*.  
07:34:03.1

**M1/M2**

07:34:07.6 [Sound of loud electronic pulsing alarm repeating about two pulses per  
07:39:41.8 second. The pulsing alarm continued through to the end of the  
recording.]

## Secondary and Electronic Communications

**M1**

07:34:00.3 [sound similar to sound power phone ringing.]  
07:34:01.2

## Primary Communications

?  
07:34:22.5 whooo. [yelled]  
07:34:22.8

?  
07:34:24.6 (yea./captain.) [yelled]  
07:34:25.1

?  
07:34:39.5 captain. [yelled]  
07:34:40.4

**AB-1**  
07:34:49.0 (what do you think?)  
07:34:49.9

**AB-1**  
07:34:56.3 help me. [yelled]  
07:34:57.3

**AB-1**  
07:36:42.7 help me. [yelled]  
07:36:43.6

**CAPT**  
07:36:44.4 @AB-1?  
07:36:45.0

**CAPT**  
07:36:45.4 don't panic.  
07:36:46.2

**CAPT**  
07:36:48.8 don't panic.  
07:36:49.9

**CAPT**  
07:36:51.8 work your way up here.  
07:36:52.9

**AB-1**  
07:36:54.3 \* \* (I can't). [yelled]  
07:36:57.7

## Secondary and Electronic Communications



## Primary Communications

**CAPT**

07:36:57.7

07:36:58.1

@AB-1.

**AB-1**

07:37:02.9

07:37:03.9

help me. [yelled]

**CAPT**

07:37:09.7

07:37:10.8

you're okay. come on.

**CAPT**

07:37:30.2

07:37:32.1

don't freeze up @AB-1. [yelled] come on. [yelled]

**?**

07:37:38.0

07:37:38.5

cap.

**?**

07:37:38.8

07:37:39.7

are you \*?

**CAPT**

07:37:40.2

07:37:42.4

where are the life preservers (up/on) here? [yelled]

**?**

07:37:43.2

07:37:44.9

\* \* \*.

**CAPT**

07:37:45.1

07:37:46.7

hey. [yelled] don't panic. [spoken loudly]

**CAPT**

07:37:48.7

07:37:50.7

where are the life preservers on the bridge? [yelled]

**AB-1**

07:37:51.3

07:37:52.0

\*.

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:37:52.0 yeah. [yelled] (go a head and grab one/we have to wear one). [yelled]  
07:37:54.1

**?**

07:37:54.7 \* (follow/on) me.  
07:37:56.0

**AB-1**

07:37:56.3 I can't \*. [yelled]  
07:37:57.2

**CAPT**

07:37:57.4 yes you can \*. [spoken loudly]  
07:37:58.2

**AB-1**

07:37:58.5 my feet are (slipping/slippery). [yelled]  
07:37:59.8

**AB-1**

07:38:01.1 goin' down. [yelled]  
07:38:02.2

**CAPT**

07:38:02.2 you're not goin' down. come on. [spoken loudly]  
07:38:03.8

**AB-1**

07:38:06.4 I need a ladder. [yelled]  
07:38:07.5

**CAPT**

07:38:08.0 we don't have a ladder @AB-1. [spoken loudly]  
07:38:09.7

**AB-1**

07:38:09.4 (a line). [spoken loudly]  
07:38:10.2

**CAPT**

07:38:10.8 I don't have a line @AB-1. [spoken loudly]  
07:38:12.5

## Secondary and Electronic Communications

## Primary Communications

**AB-1**

07:38:14.0

you gunna leave me.

07:38:15.2

**CAPT**

07:38:15.9

I'm not leavin' you let's go. [spoken loudly]

07:38:17.3

**AB-1**

07:38:21.5

[sound of scream]

07:38:22.5

**?**

07:38:33.8

\* \*

07:38:34.6

**?**

07:38:34.8

\*. [spoken loudly]

07:38:35.5

**AB-1**

07:38:35.7

(I need someone to/help somebody) help me. (you don't wanna/you

07:38:38.2

gunna) help me? [yelled]

**CAPT**

07:38:39.0

I'm the only one here @AB-1.

07:38:40.0

**?**

07:39:03.4

\*. [spoken loudly]

07:39:04.1

**AB-1**

07:39:04.6

(I can't). [yelled]

07:39:05.3

**AB-1**

07:39:06.0

I can't. [spoken clearly and loudly]

07:39:06.8

**AB-1**

07:39:07.8

(I'm gone/I'm a goner). [spoken loudly]

07:39:08.5

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:39:09.4  
07:39:10.1

no you're not. [yelled]

**AB-1**

07:39:10.5  
07:39:13.2

\* \* \*. [yelled]

**AB-1**

07:39:14.1  
07:39:15.1

just help me. [yelled]

**CAPT**

07:39:15.3  
07:39:16.6

@AB-1. [exclaimed] let's go. [spoken loudly]

**AB-1**

07:39:18.4  
07:39:19.2

\*. [yelled]

**AB-1**

07:39:19.8  
07:39:20.8

\* \* \*. [yelled]

**CAPT**

07:39:21.3  
07:39:22.1

\*. [yelled]

**AB-1**

07:39:23.6  
07:39:24.6

\* \* \*. [yelled]

**M1**

07:39:32.2  
07:39:41.8

[sound of building low frequency rumble until end of recording.]

**CAPT**

07:39:38.0  
07:39:38.4

@AB-1. [yelled]

## Secondary and Electronic Communications

## Primary Communications

**CAPT**

07:39:39.0

it's time to come this way. [yelled]

07:39:40.6

**?**

07:39:41.7

\*- [yelling cut off by the termination of the recording.]

07:39:41.8

**ALL CHAN.**

END OF TRANSCRIPT.

07:39:41.8

END OF RECORDING.

## Secondary and Electronic Communications

## Attachment I

### VDR Quality Rating Scale

The levels of recording quality are characterized by the following traits of the voyage data recorder audio information:

- Excellent Quality** Virtually all of the crew conversations could be accurately and easily understood. The transcript that was developed may indicate only one or two words that were not intelligible. Any loss in the transcript is usually attributed to simultaneous bridge conversations or radio transmissions that obscure each other.
- Good Quality** Most of the crew conversations could be accurately and easily understood. The transcript that was developed may indicate several words or phrases that were not intelligible. Any loss in the transcript can be attributed to minor technical deficiencies or momentary dropouts in the recording system or to a large number of bridge conversations or radio transmissions that obscure each other.
- Fair Quality** The majority of the crew conversations were intelligible. The transcript that was developed may indicate passages where conversations were unintelligible or fragmented. This type of recording is usually caused by bridge noise that obscures portions of the voice signals or by a minor electrical or mechanical failure of the VDR system that distorts or obscures the audio information.
- Poor Quality** Extraordinary means had to be used to make some of the crew conversations intelligible. The transcript that was developed may indicate fragmented phrases and conversations and may indicate extensive passages where conversations were missing or unintelligible. This type of recording is usually caused by a combination of a high bridge noise level with a low voice signal (poor signal-to-noise ratio) or by a mechanical or electrical failure of the VDR system that severely distorts or obscures the audio information.
- Unusable** Crew conversations may be discerned, but neither ordinary nor extraordinary means made it possible to develop a meaningful transcript of the conversations. This type of recording is usually caused by an almost total mechanical or electrical failure of the VDR system or extremely high bridge noise.