

**NATIONAL TRANSPORTATION SAFETY BOARD**  
Vehicle Recorder Division  
Washington, D.C. 20594

October 17, 2018

## **Simplified Voyage Data Recorder Data**

**Specialist's Factual Report**  
**By Ben Hsu**

### **1. EVENT**

Location: Yokosuka, Japan  
Date: June 17, 2017  
Vessel: ACX Crystal  
IMO Number: 9360611  
Operator: Olympic Steamship Co SA, Panama  
NTSB Number: DCA17PM018

### **2. SUMMARY**

See the NTSB Accident Docket for a summary of the accident.

### **3. VOYAGE DATA RECORDER GROUP**

A simplified voyage data recorder (SVDR) group was not convened.

### **4. DETAILS OF VOYAGE DATA RECORDER INVESTIGATION**

The NTSB's Vehicle Recorder Division received data from the following SVDR:

Recorder Manufacturer/Model:	Furuno VR-3000S
Recorder Serial Number:	Unknown

The SVDR data was analyzed using software supplied by the manufacturer. Further data analysis was performed using NTSB laboratory hardware and software.

#### **4.1. Furuno VR-3000S SVDR Description**

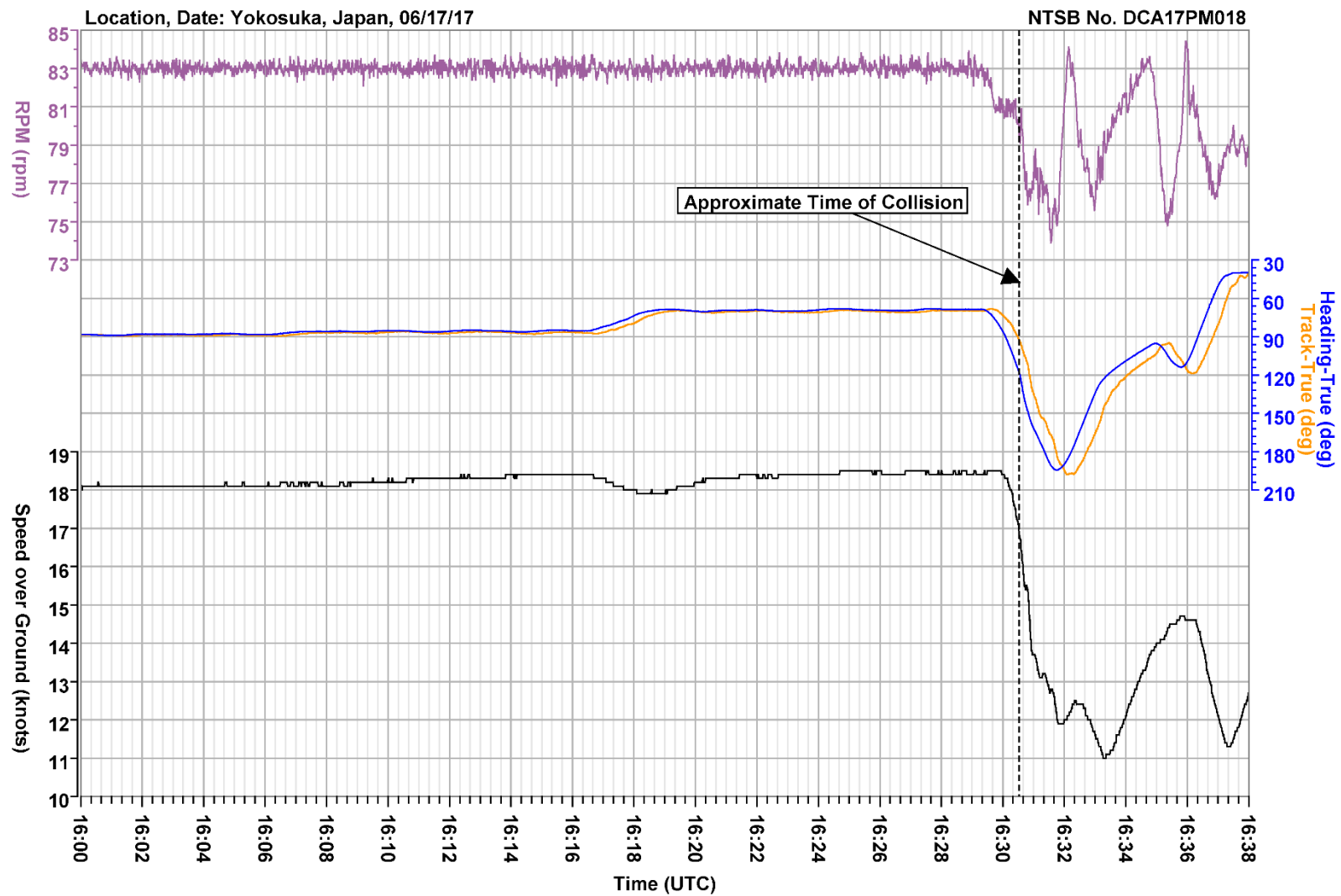
The VR-3000S is a SVDR system capable of recording navigation, propulsion, and automatic identification system (AIS) data. Additionally, bridge audio and communications audio channels are recorded by the system. A minimum of 12 hours of data is recorded by the system.

#### **4.2. Furuno VR-3000S Audio Recording Description**

The NTSB was provided an extract of data from the SVDR totaling approximately 3 hours and 38 minutes in length. The extract included voice and data recorded during the time surrounding the event. Timing of the SVDR data is synchronized to GPS time and is recorded as UTC.

Data from approximately 38 minutes is provided in this report. Figure 1 is a plot of parameters recorded by the SVDR. The data is also provided in comma-separated value (CSV) format as attachment 1.

Figure 1. Plot of data parameters from SVDR  
ACX Crystal



Revised: 9 October 2018

National Transportation Safety Board