



### **AVOID COSTLY DELAYS**

## IN DATA ACQUISITION

Rutter sigma S6 technology promotes vessel productivity by improving the detection and tracking of small and nearly hidden targets that can foul towed arrays. Processing the full dynamic range of the reflected radar pulse, Rutter's sigma S6 Small Target Surveillance (STS) system detects small and low profile objects such as ice, wooden buoys, fishing gear and floating debris that can foul seismic streamers and acoustic sensors in tow. The sigma S6 STS system detects these objects with higher reliability than standard marine radars and displays them in near photo quality imagery. For seismic vessels seeking to avoid equipment damage and costly delays in data acquisition, Rutter's STS system is an effective and cost efficient downtime prevention solution.

#### **PROVEN VALUE**

The sigma S6 STS system has proven itself on offshore platforms, support vessels and in a range of coastal surveillance and monitoring applications. Our install base also includes coastal patrol vessels where the system is used for search and rescue operations and detection of small craft for interdiction and security purposes. Rutter's STS solutions are in use for applications as diverse as detecting birds, scouting for ice, wildlife monitoring, and lost container detection.

Our experience in providing solutions for seismic data acquisition operations in warm and cold waters is significant, and we have delivered multiple systems for this purpose.

#### **NEW SIGMA S6 CONNECT**

A new web-enabled interface allows external systems such as Google Earth Pro and GIS platforms to interface with the *sigma* S6 Small Target Surveillance System to display radar imaging and target information.

#### **NEW COASTLINE MASK**

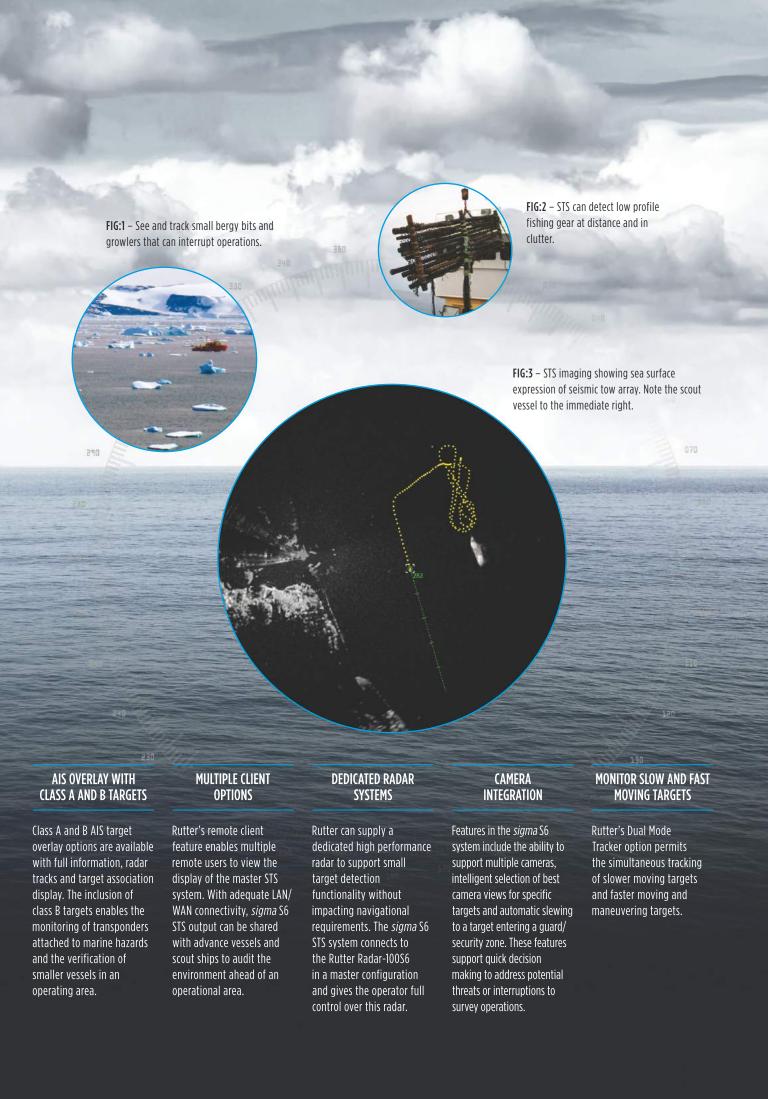
A new Coastline Mask feature provides automatic masking of land areas using a global coastline database. This prevents land areas from being detected as marine targets and simplifies system operation when working near land.

## TRACK MULTIPLE TARGETS

The *sigma* S6 STS system's advanced target tracker can monitor and track hundreds of targets simultaneously, ensuring the operator has complete awareness of all activity within range.

#### **EXCEPTIONAL FEATURES**

As the requirements of small target surveillance systems can vary, Rutter has developed a range of exceptional features that users can apply to their particular needs. Central to our value in any application of the STS system is our core strength in being able to detect extremely small objects even in high sea clutter situations.



# PRACTICAL AND VERSATILE SOLUTIONS

Rutter *sigma* S6 technology connects to most commercially available marine radars, enabling customers to extract additional value and effectiveness from their existing assets. Should it be required, Rutter provides the option of supplying a dedicated high performance radar as an input sensor. As with all Rutter *sigma* S6 product lines, our STS systems can be combined with any of our other systems to meet your needs: Oil Spill Detection, Ice NavigatorTM, SeaFusion Data Integration, and wave and current measurement through the WaMoS® II wave and current monitoring systems offered by OceanWaveS GmbH.

## RUTTER SMALL TARGET SURVEILLANCE SYSTEMS

#### **Features:**

- · Small Target Detection
- Screen Capture and Video Recording
- Tracking Software (500 Targets)
- Scan Averaging (64 Scans)
- Motion Compensation
- · Multiple Remote Clients
- Cursor Serial Port Output (For IR camera input)
- TTM NMEA Serial Port Outputs (For IR camera and ECDIS Inputs)
- sigma S6 Connect
- Coastline Masking
- · Dual Mode Plot Extractor

#### **Options:**

- · Raw Data Recording
- SeaBridge Multiple Client Low Bandwidth Communication Link
- SeaFusion Multiple Radar Single Display

**Note:** STS accepts standard serial/network inputs from navigational instruments (NMEA 0183) including: AIS, wind anemometer, echo sounder, speed log, GPS, and gyrocompass.

Information about end user training, product support, product combinations, performance modeling, product references and reliability measures can be provided by e-mailing your request to *support@rutter.ca* 

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