

C-Scope Oil spill detection



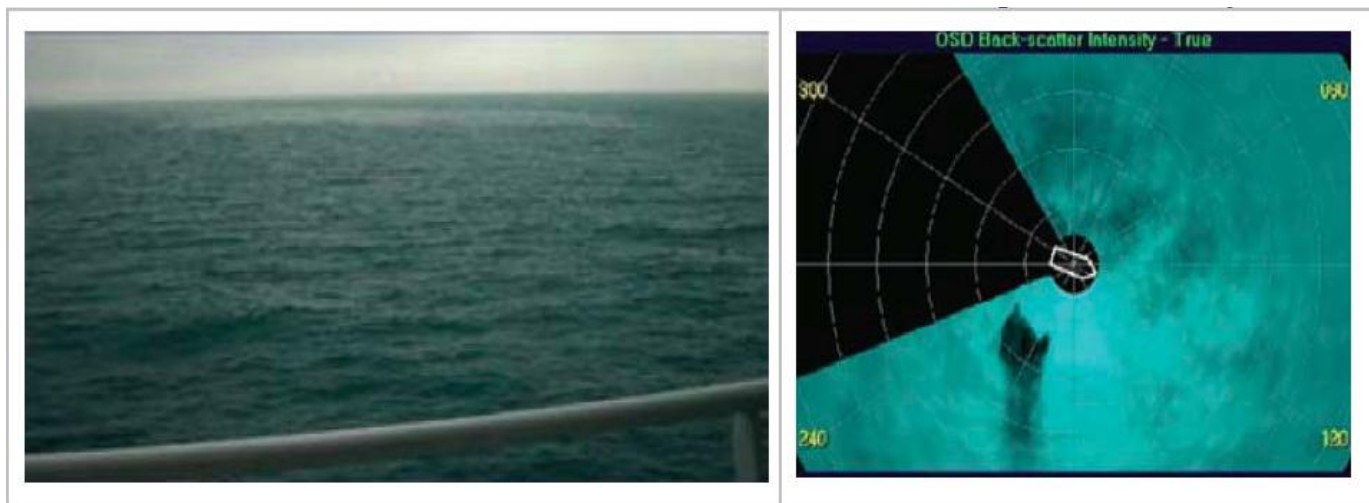
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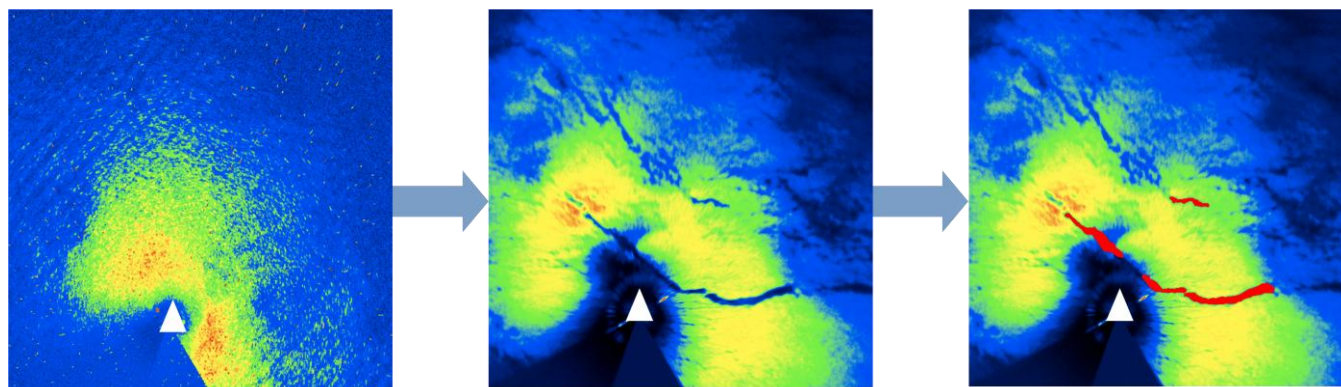
is Kongsberg Norcontrol IT's 7th generation situational awareness solution to identify and proactively manage risk, primarily within the maritime domain. C-Scope provides ultimate situational awareness for tactical operations and strategic planning for ports authorities, coastal administrations, inland waterways authorities, offshore operators and military organizations.

The C-Scope oil spill detection service provides low false alarm detection of oil spills on the sea surface using parallel radar processing. The oil spill detection service is typically provided in addition to and simultaneously with radar services for VTS and/or collision avoidance. It is an attractive option for port authorities with oil terminals and offshore operators in areas where there is a heightened risk of spillage.

The oil spill detection service connects to new or existing X-band radars and produces an overlay when oil is detected for logging, display and replay in the C-Scope system. The actual range of coverage is typically 3-5 km in open waters.



Oil spill on the sea surface and detected by radar; shown in black colour



A detected Oil spill is processed and finally displayed in bright red, making it easily detected by operators

The oil spill is normally presented as a WMS overlay on the Common Operating Picture/VTS Traffic Image.

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Features	Benefits
<ul style="list-style-type: none">Fully compatible with the C-Scope system	<ul style="list-style-type: none">Extension to existing C-Scope system
<ul style="list-style-type: none">Compatible with suitable existing X-band radars	<ul style="list-style-type: none">Cost-effective additional radar service
<ul style="list-style-type: none">Solid state or magnetron transceivers	<ul style="list-style-type: none">High degree of flexibility
<ul style="list-style-type: none">Automated oil spill detection	<ul style="list-style-type: none">Minimises operator workload; operator is automatically alerted at detection of a spill
<ul style="list-style-type: none">Low false alarm rate	<ul style="list-style-type: none">Builds operator confidence
<ul style="list-style-type: none">Parallel to ordinary VTS and/or collision avoidance radar service(s)	<ul style="list-style-type: none">Improved utilization of equipment and operators
<ul style="list-style-type: none">Det Norske Veritas (DNV) certified processor	<ul style="list-style-type: none">Independent, world recognized certification
<ul style="list-style-type: none">Oil spill detections are visualized using the C-Scope Operator Client	<ul style="list-style-type: none">Improves operator situational awareness showing real-time traffic positions together with the oil spill area
<ul style="list-style-type: none">Detection of oil spill present position, historical position and estimation of future position	<ul style="list-style-type: none">Enables the accurate pre-positioning of oil spill response assets
<ul style="list-style-type: none">Integrated deployment of Virtual Aids to Navigation (VAtoN) using the AIS VHF Data Link (VDL)	<ul style="list-style-type: none">Improves response to traffic management using C-Scope's AtoN Manager
<ul style="list-style-type: none">Distribution of oil spill area and future position area throughout the company organization and nearby vessels	<ul style="list-style-type: none">Information distribution and visualization throughout the company organization enables a higher level of Integrated Operations
<ul style="list-style-type: none">Oil spill alerting capability	<ul style="list-style-type: none">Operators can quickly notify and advise oil spill response assets of an oil spillage using C-Scope Incident Management
<ul style="list-style-type: none">Synchronised logging of sensor detections	<ul style="list-style-type: none">Consolidated source for sensor detections including oil spill detections and operator actions/response
<ul style="list-style-type: none">Logging of oil spill detections	<ul style="list-style-type: none">Recordings of all detections can be used for incident analysis and training
<ul style="list-style-type: none">Extendable with satellite based oil spill detection	<ul style="list-style-type: none">Wider area complementary service

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