



OIL SPILL DETECTION SYSTEM

Ecological monitoring of water areas, objects of increased environmental danger, extraction, transportation and storage of oil

PROBLEM

GLOBAL ENVIRONMENTAL DAMAGE FROM OIL SPILLS

THE MAIN CAUSES



Lack of a tool for regular environmental monitoring of water areas

Late detection of oil spills



Inefficient measures to localize oil spills



SOLUTION

ECORADAR HARDWARE AND SOFTWARE



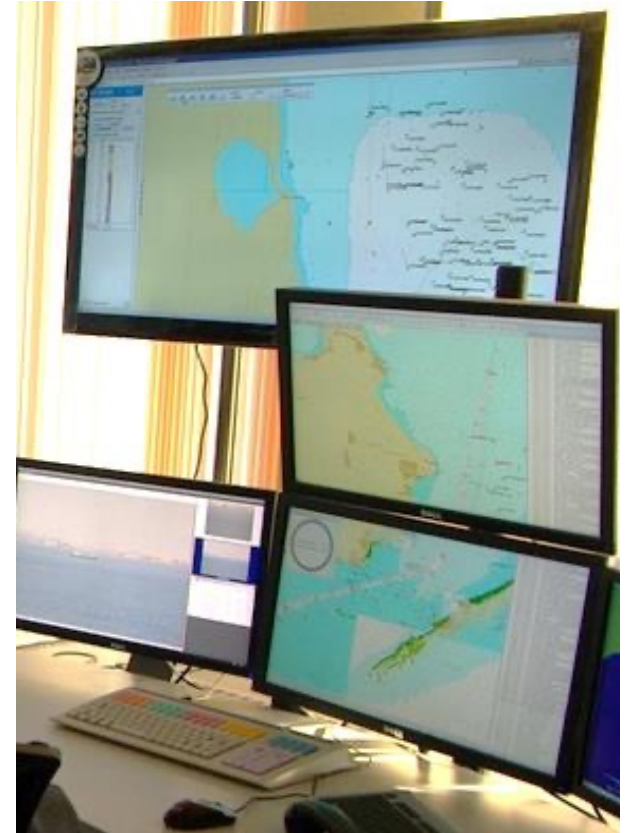
MULTIFUNCTIONAL HIGH-
RESOLUTION RADAR SYSTEM

TIMELY ALARM, TRACKING AND FORECASTING
THE EVOLUTION OF THE SITUATION



EARLY DETECTION OF
POLLUTION AND OBJECTS

AUTONOMOUS AND AUTOMATED
CONTINUOUS MONITORING OF WATER AREAS



TECHNOLOGY

KEY BENEFITS



CONTINUOUS OPERATION

24/7/365



SPILL DETECTION RANGE

OT 1000M (H = 12M)



MINIMUM SPILL SIZE

OT 3M DIAMETR



MINIMUM SLICK FILM THICKNESS

MONOMOLECULAR



OPERATING CONDITIONS

WIND

to 40 m/s

TEMPERATURE

- 40°C

+40°C



CONDITIONS UNDER WHICH THE FILM IS DETECTED*

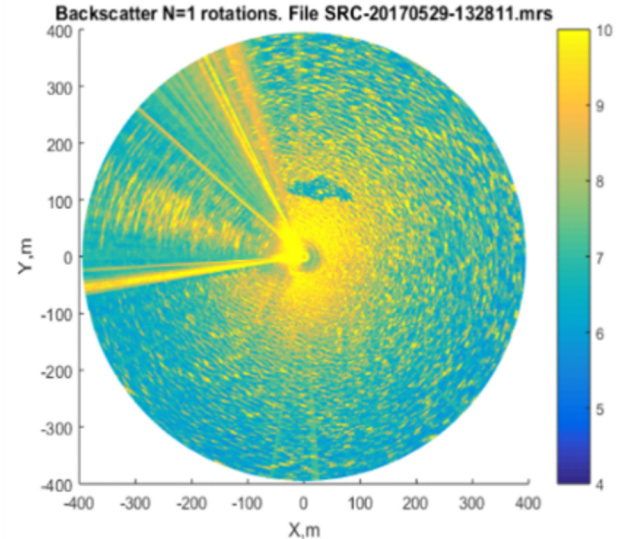
WIND

2 -15 m/s

WAVE

from ripples up to 5 points

*(depending on film thickness)





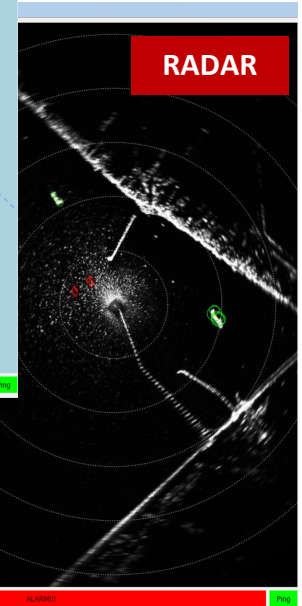
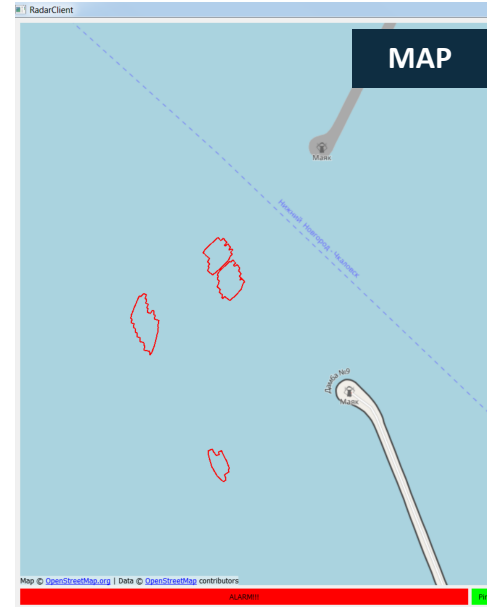
UNIQUE COMPETITIVE ADVANTAGE PLUG&PLAY

Digital radar allows, unlike existing analogues, to evaluate these parameters without calibration on the ground



INTEGRATED MONITORING OF THE WATER SURFACE

- ✓ presence of film pollution
- ✓ speed and direction of surface flow
- ✓ parameters of wind-wave conditions
- ✓ forecast of pollution propagation



EXPANSION OF FUNCTIONALITY

ANTI-TERROR, SEARCH AND
RESCUE



ICE CONDITIONS, CURRENTS
AND WIND-WAVE

NAVIGATIONAL DATA



EXPANSION OF FUNCTIONALITY



MOBILE RADAR



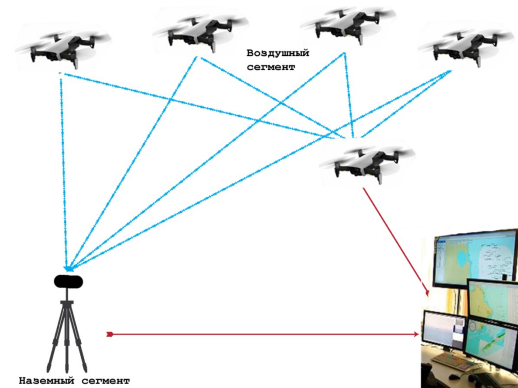
RADAR DRONES



SHIP'S RADAR



INDEPENDENT
COMMUNICATION



MARKETS

INSTALLATION OF
ECORADAR POSTS IN
AREAS OF CRITICAL
INFRASTRUCTURE



CONNECTING TO A SINGLE
INFORMATION CENTER



MARKETS

CREATION AND DEVELOPMENT OF A
DISTRIBUTED NETWORK OF
ECORADAR STATIONS FOR
INTEGRATED MONITORING



CREATING A DATA CENTER
ENVIRONMENTAL MONITORING
WATER AREAS AND RESERVOIRS



RIVERS | LAKES | SEAS



THANK YOU FOR YOUR ATTENTION!

ECORADAR



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