ORBITAL
EOS

INTELIGENCIA ARTIFICIAL PARA LA DETECCIÓN AUTOMÁTICA DE DERRAMES EN
IMÁGENES DE SATÉLITE

SALVAMENTO MARÍTIMO

25+ años en el mar

CONTROL DE CONTAMINACIÓN MARINA

25 años combatiendo la contaminación

CONTROL DE CONTAMINACIÓN MARINA

25 años combatiendo la contaminación

LIMITACIONES

1

Cobertura espacial

2

Coste operacional

3

Seguridad

Side Looking Airborne Radar

Side Looking Airborne Radar

SATÉLITES

SAR: capaz de observar de noche y a través de las nubes

SATÉLITES

SAR: capaz de observar de noche y a través de las nubes

250 KM

Cobertura

SATÉLITES

—
Ópticos: caracterizar el derrame –¿es realmente una mancha de petróleo?
¿Que cantidad hay?

SATÉLITES

—
Ópticos: caracterizar el derrame -¿es realmente una mancha de petróleo?
¿Que cantidad hay?

290 KM
Cobertura

CAPACIDAD DE VIGILANCIA

4 HORAS

30 SEGUNDOS

Análisis de imágenes

Inspección manual

Consume tiempo

70% falsas alarmas*

Turnos de 24h

*EMSA CleanSeaNet user's report 2017

NEOTEC

Detección automática de derrames en imágenes de satélite mediante técnicas de IA

Nuestra solución :

EOS VIEWER

Solución única, que permite
detección, caracterización y
predicción.

Premiada por la Agencia Espacial
Europea (ESA) en 2020.

The image displays two screenshots of the ORBITALEOS Earth Observation Solutions interface. The top screenshot shows a dashboard with the following data:

- Total Events Detected: 183
- Total Affected surface: 12727.95 km²
- Total Thick oil: 2595.34 km²

The dashboard also includes a pie chart for '% Sources' with categories: % Unknown, % Ship, % Oil Platform, and % Natural Leak. A bar chart shows the 'No. Sources' for each category. A world map displays event locations with numbered markers. A 'Map' button with a 'Go to map' link is also visible.

The bottom screenshot shows the 'EOS Viewer' interface with a satellite image of a coastal area. On the left, a 'Latest' filter shows a list of event thumbnails with IDs such as 20210228-1647-LBY-SH-B-01-S1. On the right, an 'Event Information' panel provides details for a selected event:

Event Information	
Details	
Position	25.214°, 56.487°
Area	35.81 km ²
Date	Jun 28, 2020 06:40 UTC
Sheen area	35.81 km ²
Thick area	1.31 km ²
Min. Volume	7.99 m ³
Max. Volume	76.34 m ³
Shore distance	5.8 km
Satellite	Landsat-8
Less info ↑

Event Information [Close]

Oil spill from M/V SABITI

Details

Position [Refresh] 21.072°, 38.726°

Area: 3130.38 km² **Class:** A

Date: Oct 22, 2019 15:28 UTC

Min. Volume: 125.22 m³

Shore distance: 0 km

Satellite: Sentinel-1

[Less info](#) [Up Arrow]

Tools

- [Up Arrow]
- [Warning Icon]
- [Refresh Icon]
- [Map Icon]
- [Download Icon]
- [Print Icon]

Sabity Oil Tanker accident, Saudi Arabia, Oct. 2019
Radar satellite image after having been analysed by our AI

Event Information

Oil slick from platform

Details

Position 28.905°, 33.091°

Area: 26.21 km² Class : A

Date: Jun 02, 2020 08:26 UTC

Sheen area: 26.21 km²

Thick area: 1.05 km²

Min. Volume: 6.3 m³

Max. Volume: 60.41 m³

Shore distance: 1.04 km

Satellite: Sentinel-2

[Less info ↑](#)

Tools

-
-
-
-
-
-
-
-

Leak from oil rig Ras Abu Rudeis, Egypt, June 2020
Optical satellite image after having been analysed by our AI. The analysis provides thickness mapping (where is the combatable oil) and quantification

Gain: 1

Relief

Latest Filter

20210519-1542-CYS-UO-B-01-S1

20210518-1728-ITA-UO-B-02-S1

20210518-1001-TWN-UO-A-01-S1

20210518-0840-TUR-UO-A-03-S2

20210517-2311-IDN-NL-B-02-S1

20201028-0700-QAT-SH-B-01-S2

Event Information ✕

Oil slick from vessel

Details

Position ↻ 26.405°, 53.581°

Area: 1.29 km² **Class** ⓘ: B

Date: Oct 28, 2020 07:00 UTC

[More info](#) ↓

Tools

↑

! (Warning icon)

✖ (Close icon)

🌐 (Globe icon)

🚢 (Ship icon)

⬇️ (Download icon)

📄 (Print icon)

Oil spill produced by ship, Arabian Gulf, Oct 2020
 Optical satellite image after having been analysed by our AI.
 The analysis provides identification of the ship.

Gain: 1

Slider bar

1 km

GALLERY :

CLIENTES

Trabajando con organizaciones y
compañías de primer nivel

GALLERY :

CLIENTES

Trabajando con organizaciones y compañías de primer nivel

**USING SPACE TO
SOLVE
PROBLEMS ON
EARTH**

+34619448352

info@orbitaleos.com

Alvaro de Bazán, 10, Valencia
Spain