



# European Union Satellite Centre

*Ab Astris Veritas*

## Responding to Customer Needs: Practical Results from Civil-Military Synergies

9<sup>th</sup> February 2010

**Tomaž Lovrenčič**  
Director  
[t.lovrencic@eusc.europa.eu](mailto:t.lovrencic@eusc.europa.eu)



# EUSC – An Autonomous European Capability

“The Satellite Centre shall, in coherence with the European Security Strategy, support the decision-making of the European Union in the field of the CFSP, in particular of the ESDP, including European Union crisis management operations, by providing, as appropriate, products resulting from the analysis of satellite imagery and collateral data, including aerial imagery, and related services.”



## Hijacked Merchant Ships off the Coast of Somalia EUFOR ATALANTA

Three merchant ships are observed off the coast of Somalia, SE of the pirate base at Hobyo Town. The ships are identified as the general cargo ship Charelle, the bulk carrier MV Ariana and bulk carrier Xin Hai.

**IA Assessment:**  
Hobyo town is ideally suited to support pirate activities and continues to provide basic accommodation for pirates, shelter for pirate vessels and access to the Indian Ocean. The presence of three hijacked vessels off the coast of Hobyo indicates that the town and its adjacent coastline is a major holding area for hijacked vessels and crews.



RP: 05°21'00" N 048°31'36" E

Image: QuickBird MS/Pan Merged  
Date: 30 Oct 2009

This product is covered by the EU Security Regulation 2001/264/EC. Copyright © European Union Satellite Centre 2009. All rights reserved. Copyright of original imagery remains with the provider. However, EU institutions or bodies, EU Member States or Associated Third States, within the meaning of the annex to Council Joint Action of 20 July 2001, may reproduce this product for official use only. This product remains the property of the European Union Satellite Centre. The Satellite Centre accepts no legal responsibility or liability whatsoever with regard to the use of this product.  
European Union Satellite Centre, Apartado de Correos No 511, 28850 Torrejón de Ardoz, Madrid, España. Tels: (+) 34 91 676 6000 Fax: (+) 34 91 676 6006



# Operational Direction, Political Supervision



## JA Art. 3: Political Supervision

The **Political and Security Committee (PSC)** will, in accordance with its responsibilities for CFSP and in particular for the ESDP, **exercise political supervision** over the activities of the Centre and issue **guidance to the Secretary-General / High Representative on the Centre's priorities.**

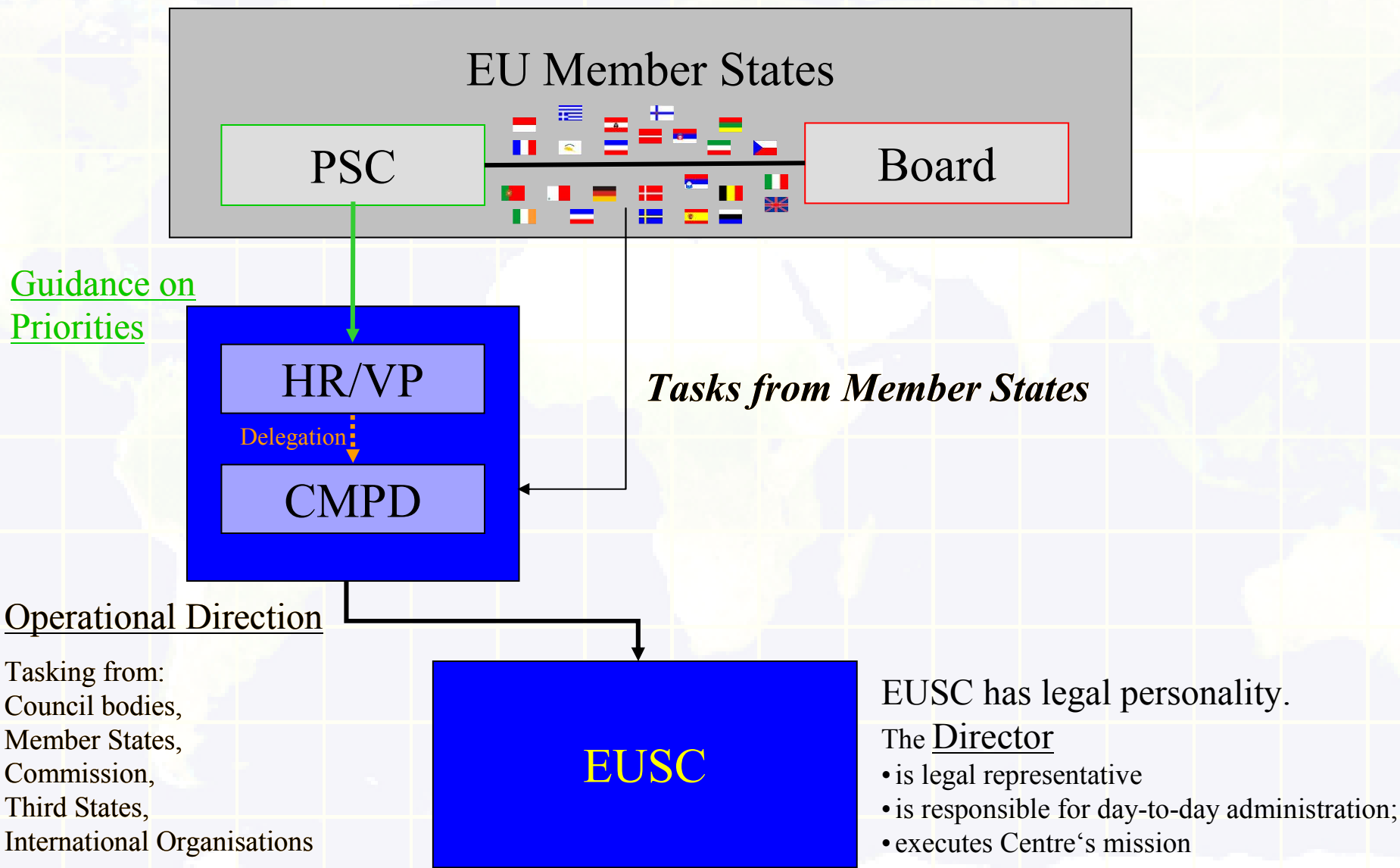


## JA Art. 4: Operational direction

1. The **Secretary-General/High Representative** shall give **operational direction** to the Centre, without prejudice to the responsibilities of the Board and of the Director of the Centre, respectively, as set out in this Joint Action.



# EUSC Governance

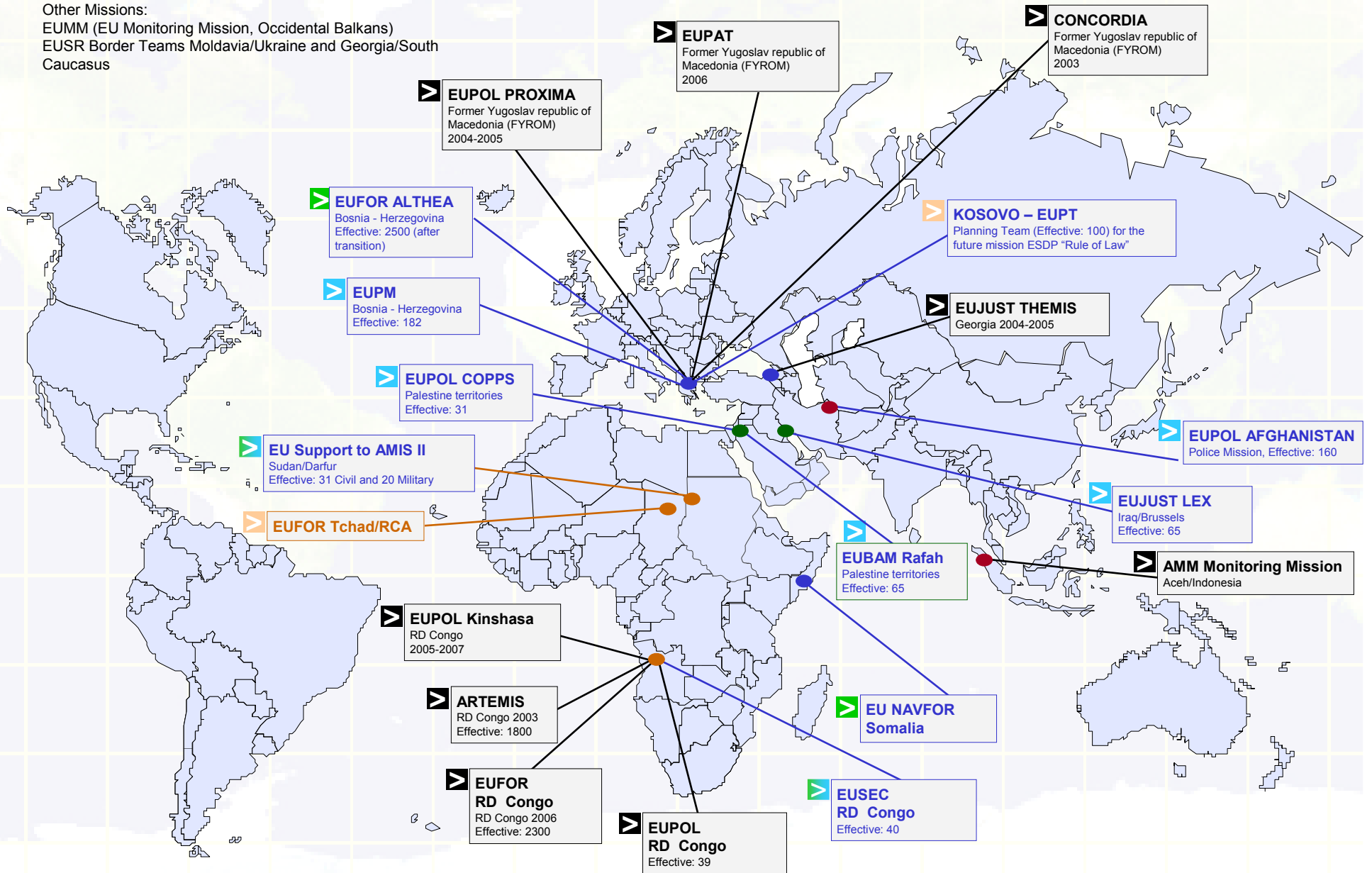




# EU Missions & Operations

- ▶ Civil Missions
- ▶ Military operations
- ▶ Achieved Missions/Operations
- ▶ Planned Missions/Operations

Other Missions:  
 EUMM (EU Monitoring Mission, Occidental Balkans)  
 EUSR Border Teams Moldavia/Ukraine and Georgia/South  
 Caucasus





## The Problem!

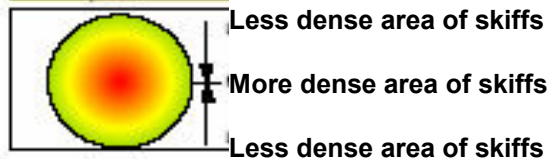
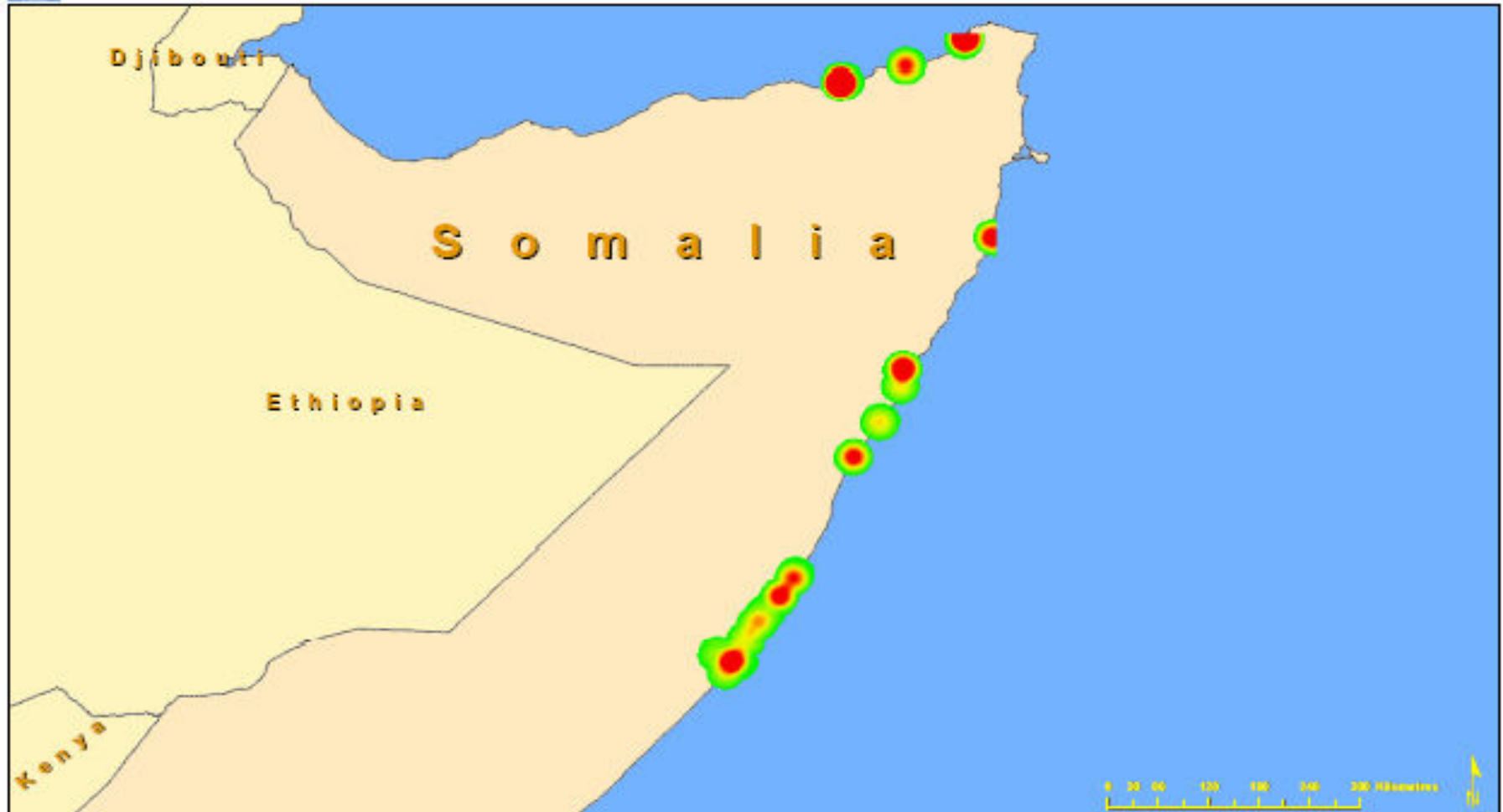




# Total Skiff Density Study - Somalia

UNCLASSIFIED UE

Total Skiff Density Study - Somalia

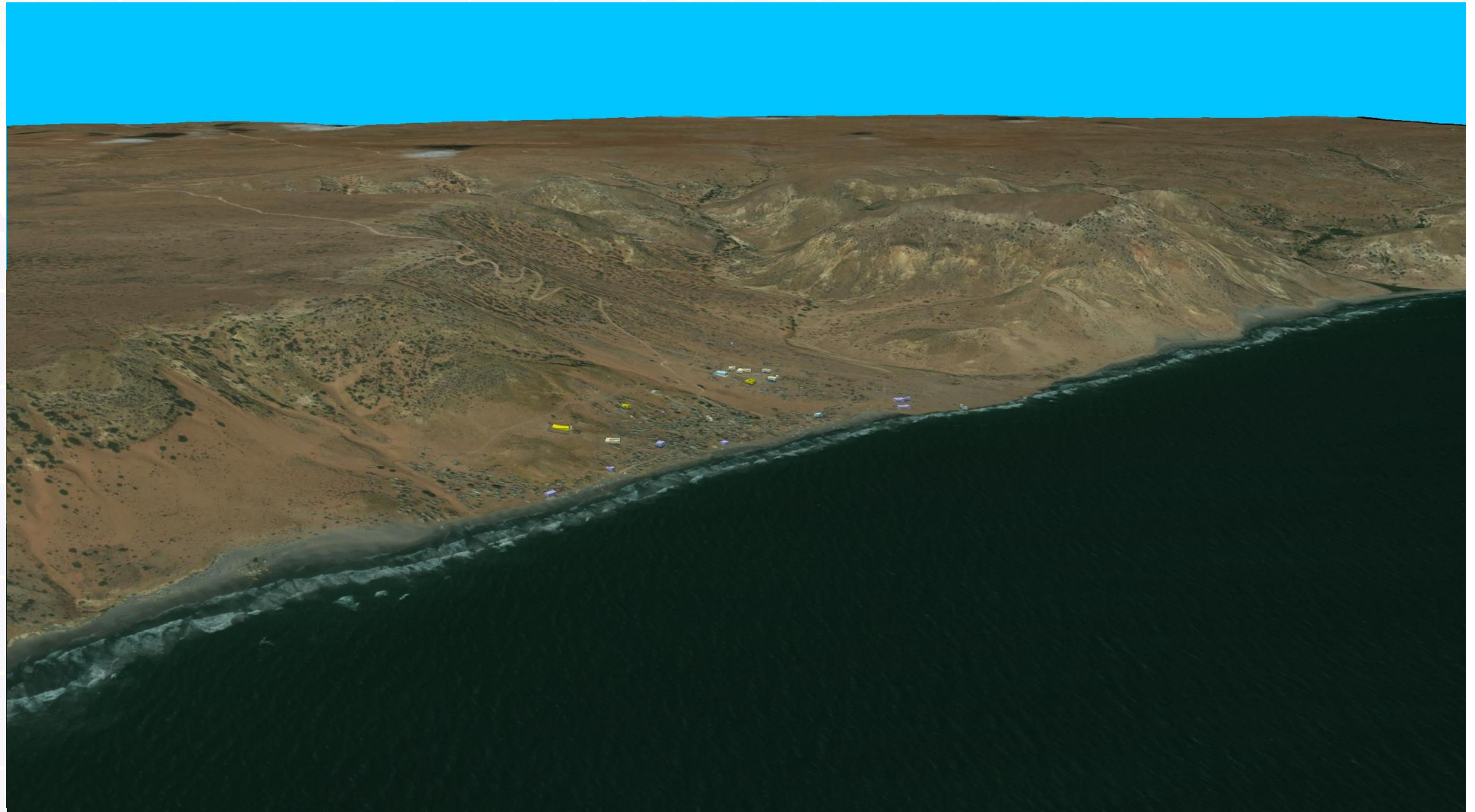


All Skiff data vectorised from available imagery by EUSC. for June 2009 – December 2009.

UNCLASSIFIED UE

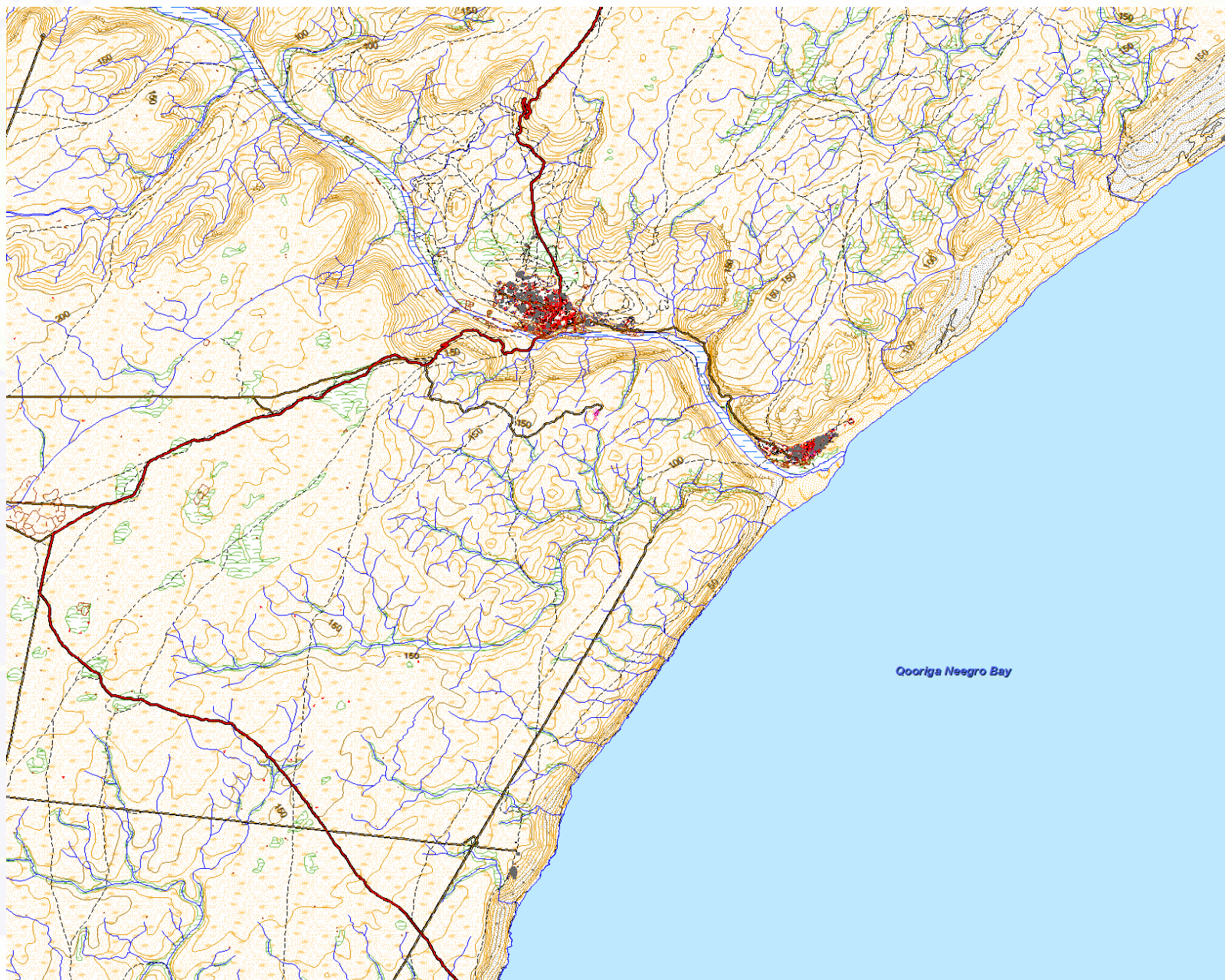


## Search for Potential Pirate Camps – 3D Views of the Coastline



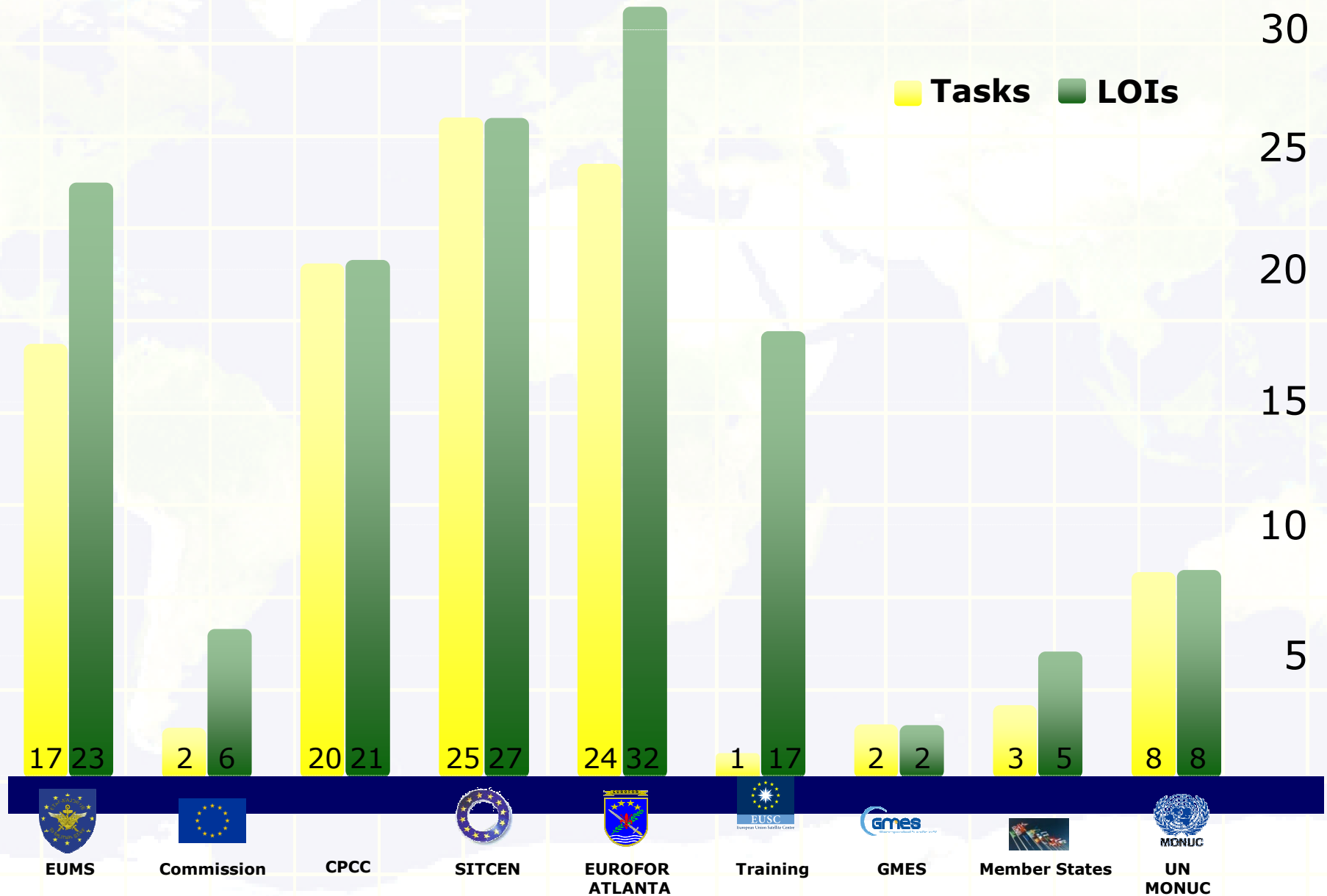


# DIGITAL GEOGRAPHIC INFORMATION PRODUCT (DGI)





# EUSC CivMil User Requests 2009





LandSat

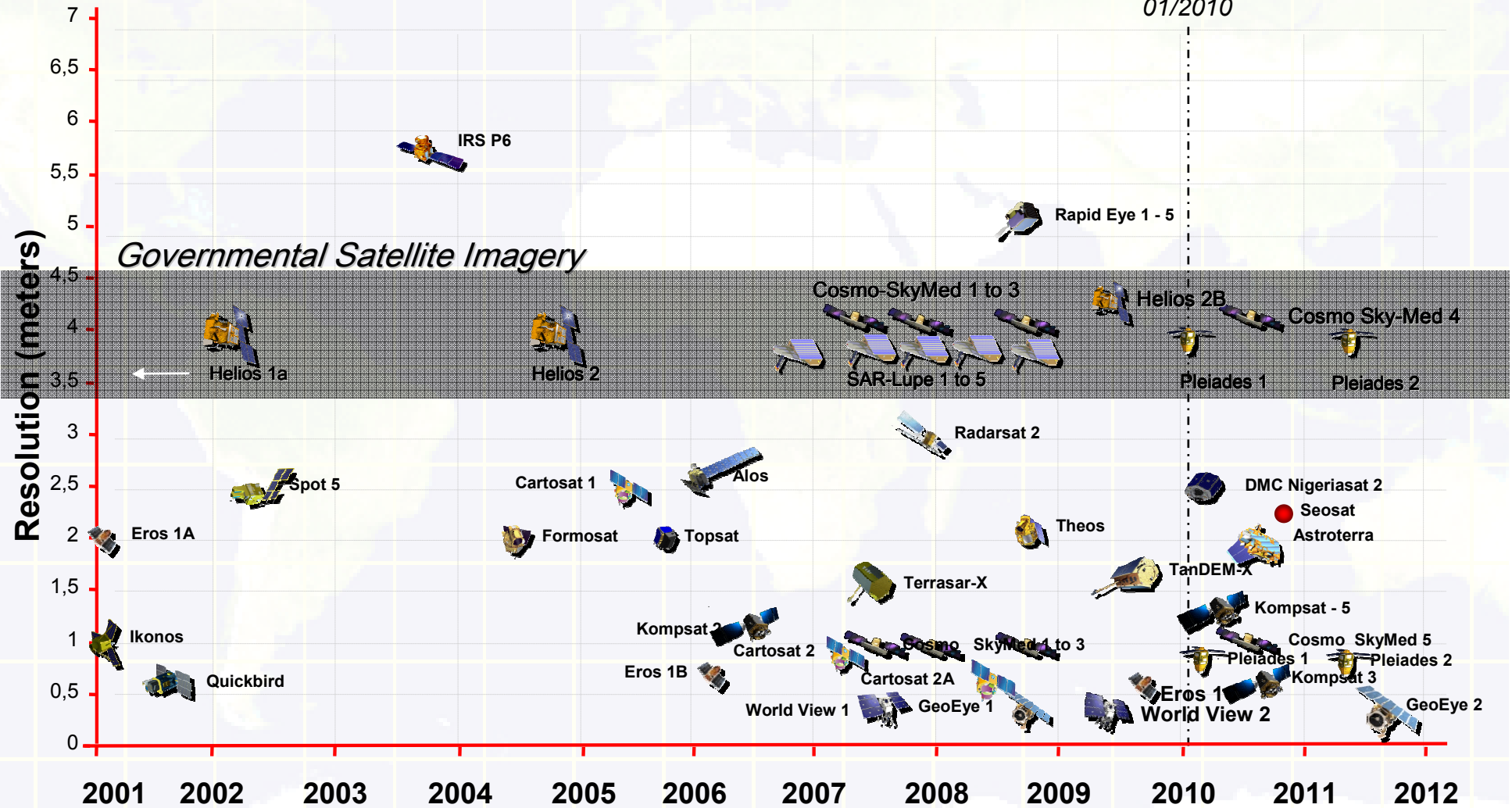
EOS ASTER

ENVISAT

# Satellite Sensors

## Resolution and Availability

GMES  
(Sentinel 1)





# Status of Governmental Imagery at EUSC

System	Legal Status	Technical connection	Operational status	Classification
<b>Hélios</b>	MoU signed and implemented	Data transfer established via Spanish Hélios cell near EUSC	Imagery received and processed; products distributed	CONFIDENTIEL UE
<b>COSMO-SkyMed</b>	MoU signed; application agreement close to signature	Separate data link to be established	Dual use: commercial imagery already in use, military imagery expected soon	CONFIDENTIEL UE
<b>SAR-Lupe</b>	Letter of Intent signed; MoU close to signature	Separate data link to be established		SECRET UE





# GMES activation timeline for Haiti earthquake



Event

Activation:

UN  
S Red Cross  
I MoD  
I MFA

1st delivery

Maps Maps

Reactivation:

UN

Activation:

Dutch MoD

Maps

Final

delivery delivery

Jan 12

Jan 14

Jan 16

Jan 17

Jan 18

Jan 19

Jan 21

Jan 22

Jan 23

Morning: trafficability  
analysis

Evening:  
Damage assessment  
Gathering areas

Jan 19

Automatic  
Damage  
Assessment

- Ports
- Airports
- Update Gathering areas
- Trafficability and Damage assessment: Leogane Jacmel



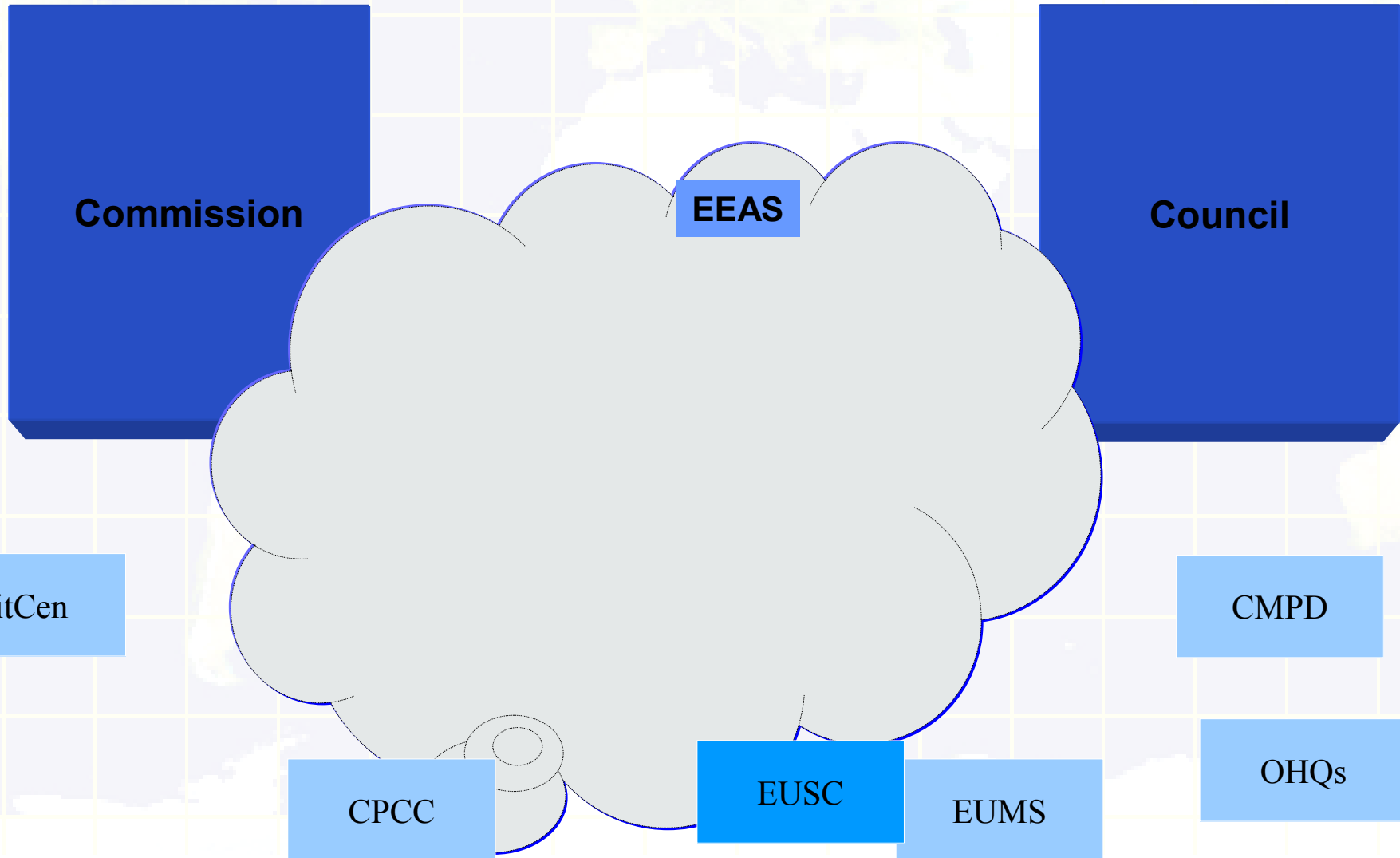
## EUSC development outlook

- Kiruna debate (Board discussion about EUSC strategy in 3/2009)
- Prepare EUSC to satisfy growing user demands determined by expanding EU's foreign and security policy agenda, by e.g.:
  - o Optimizing EU intelligence cycle and data fusion capabilities, esp. related to the European External Action Service (EEAS)
  - o Assessing and updating EUSC governance model to intensify interaction with PSC as well as Member States
  - o Simplifying tasking process to improve responsiveness to operational needs as well as high-level political decision making
  - o Assessing EUSC role within security dimension of Global Monitoring for Environment and Security programme (GMES)

**The EEAS opens new opportunities for EUSC support to its civilian and military needs by improving direct interaction with PSC / Member States and EU missions and operations**



# EUSC and the European External Action Service







*Thank you for your attention!*

**Tomaž Lovrenčič**

*Director*

European Union Satellite Centre

Apdo. de Correos, 511

E-28850 Torrejón de Ardoz/Madrid

e: [t.lovrencic@eusc.europa.eu](mailto:t.lovrencic@eusc.europa.eu)

t: +34 91 678 6001, f:+34 91 678 6006