



# E07/E08 indicators – Italy

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ISPRA

Meeting of the Ecosystem Approach Correspondence Group on Monitoring  
(CORMON) on Coast and Hydrography

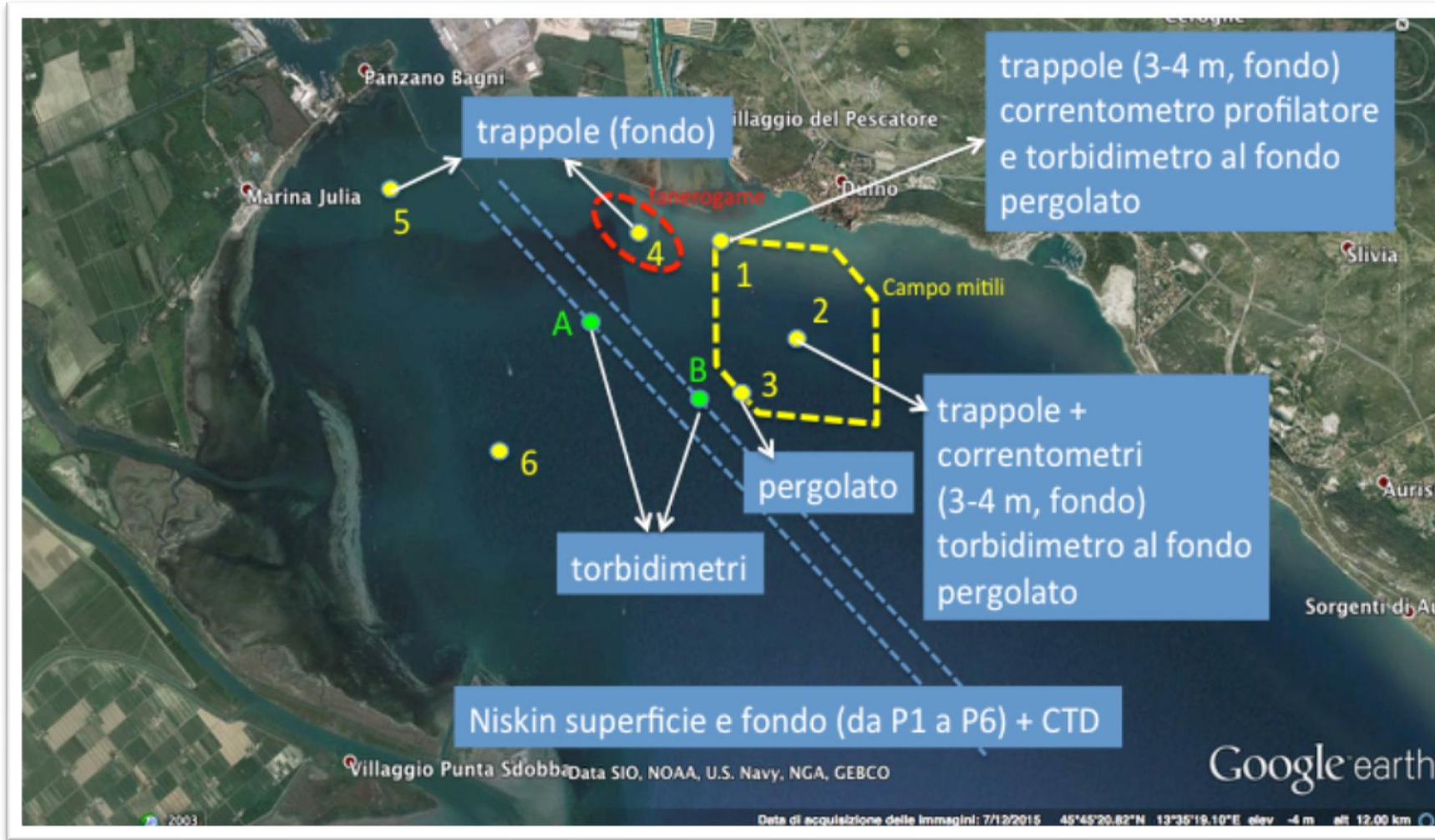
21<sup>st</sup>-22<sup>nd</sup> May 2019

E07 - 7.2 Alterations due to permanent constructions on the coast and watersheds, marine installations and seafloor anchored structures are minimized

***EcAp indicator: 7.2.2 Location and extent of the habitats impacted directly by the alterations and/or the circulation changes induced by them: footprints of impacting structures***

- Italy implementation in coherence with MSFD: Focus on structures planned or to be realized starting from 2012 for subject to national Environmental Impact Assessment - EIA
- Result of 2012-2018 recognition:
  - New Port of Fiumicino – Monitoring planned in EIA considered adequate
  - Storage, regasification and distribution terminal of LNG in port of Monfalcone – Additional monitoring w.r.t. EIA was planned and realized by ISPRA

**EcAp indicator: 7.2.2** Additional monitoring w.r.t. EIA was planned and realized by ISPRA for Storage, regasification and distribution terminal of LNG in port of Monfalcone



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**EcAp indicator: 7.2.2** Additional monitoring w.r.t. EIA was planned and realized by ISPRA for Storage, regasification and distribution terminal of LNG in port of Monfalcone

- Delft 3D vs Telemac hydrological numerical modelling comparison both coupled with water quality DELWAQ
- Boundary conditions provided by Copernicus Marine Environment Monitoring Services – CMEMS <http://marine.copernicus.eu/>
- Cal/Val with in-situ monitoring data:
  - Temperature, Salinity,
  - Nutrients
  - Turbidity in water column and seabed with sediments
  - Currents
  - River flows
  - Sediment deposition measured by sedimentary trap

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EO7 - 7.2 Alterations due to permanent constructions on the coast and watersheds, marine installations and seafloor anchored structures are minimized

**EcAp indicator: 7.2.2 *Location and extent of the habitats impacted directly by the alterations and/or the circulation changes induced by them: footprints of impacting structures***

- 2018-2024: On going recognition of new structures:
  - n. 36 – Adriatic Sea
  - N. 40 – Western Mediterranean Sea
  - N. 8 – Ionian and Central Mediterranean Sea

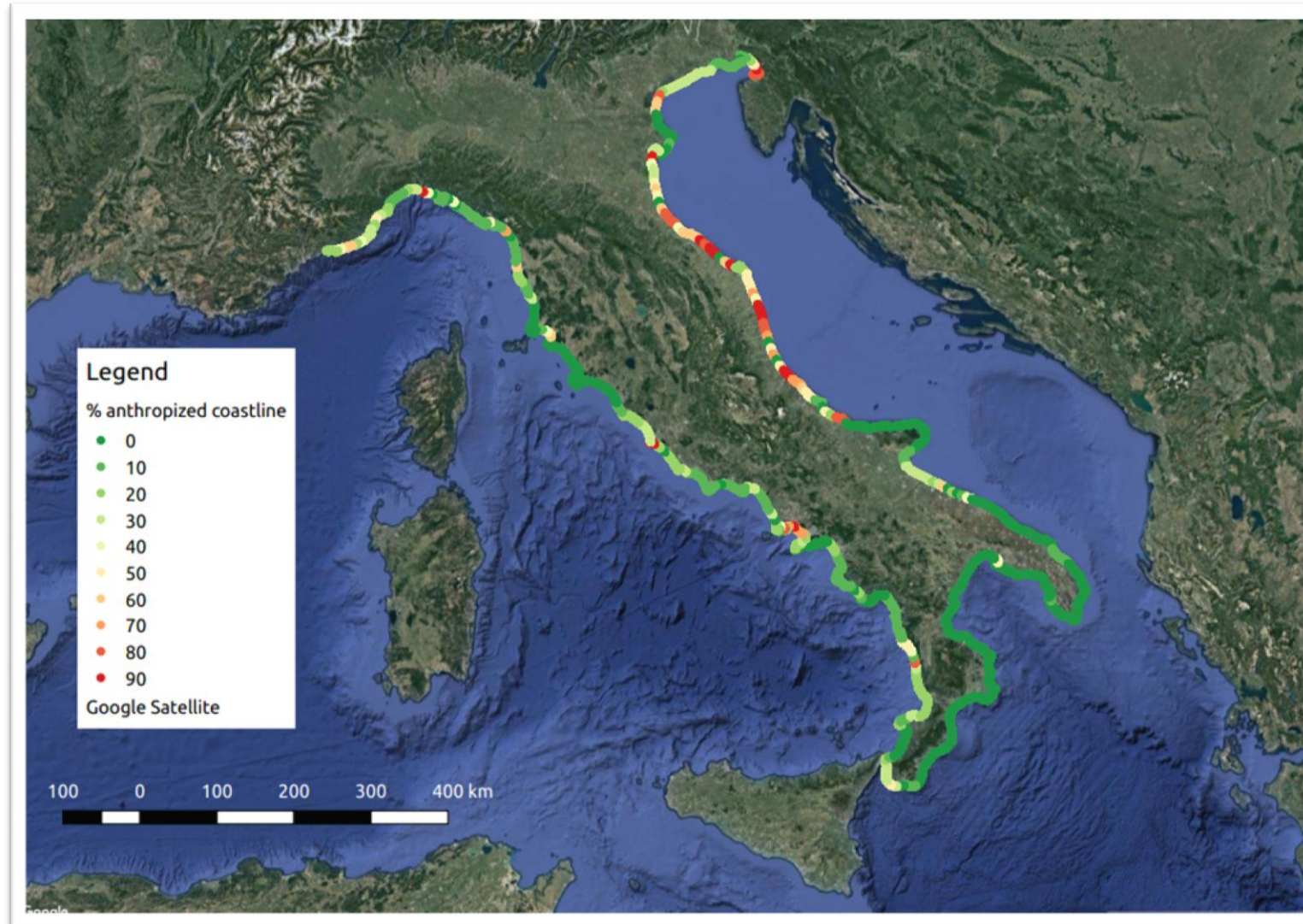
New web portal for National EIA: <https://va.minambiente.it/en-GB>

EO8 - 8.1 The natural dynamic nature of coastlines is respected and coastal areas are in good condition

**EcAp indicator: 8.1.4 - *Length of coastline subject to physical disturbance due to the influence of manmade structures***

- Reference coastline: 2006
- Identification of manmade structures by aerial photographs for 2006 (reference year – baseline) and 2012
- Impervious surfaces for 2006 and 2012 on territory of coastal municipalities by satellite imagery (Rapid-Eye), manually validated by aerial photographs
- Index level of artificialization with identification of homogenous subdivisions

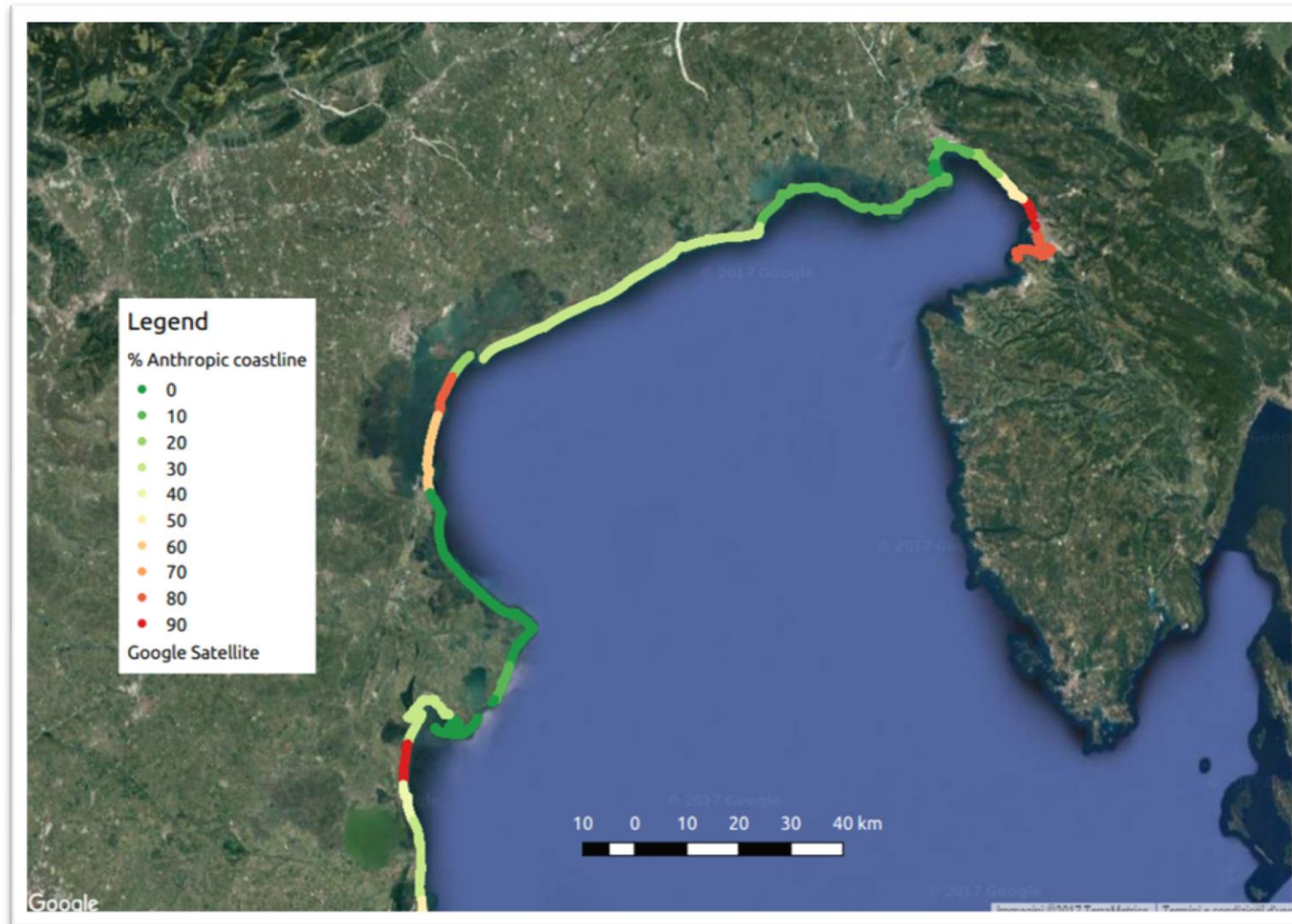
## EO8 - 8.1.4 - Length of coastline subject to physical disturbance due to the influence of manmade structures



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## EO8 - 8.1.4 - Length of coastline subject to physical disturbance due to the influence of manmade structures



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# EO8 - 8.1 The natural dynamic nature of coastlines is respected and coastal areas are in good condition

	LENGTH (KM) 2006			PERCENTAGE 2006		PERCENTAGE 2012		TREND 2006-2012
	total	natural	artificial	natural	artificial	natural	artificial	artificial
<b>ITALY – continental</b>	3844.985	3058.103	786.882	79.53	20.47	79.02	20.98	+0.51%
<b>SICILY</b>	1177.769	1003.140	174.629	85.17	14.83	85.01	14.99	+0.16%
<b>SARDINIA</b>	1512.145	1444.395	67.749	95.52	4.48	95.46	4.54	+0.06%
<b>TOTAL</b>	6535.899	5505.638	1029.261	<b>84.25</b>	<b>15.75</b>	<b>83.89</b>	<b>16.11</b>	<b>+0.36%</b>



# Thank You

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