

## main current projects

**Included:** only projects based on funds from tenders by public institutions, CNR projects developed within LaMMA

Excluded: internal projects, in-house projects, services for private companies

Meteocat meeting, Sesto Fiorentino Jun. 13, 2018

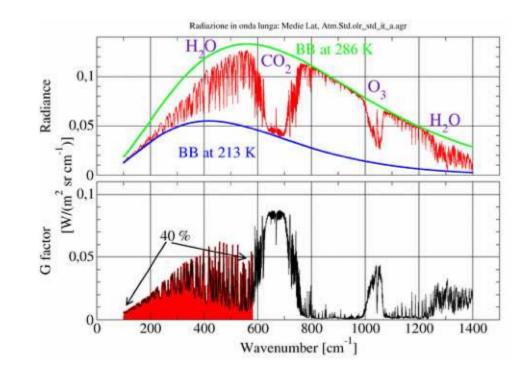
projects activities	PROCESS PROCESS	ERINA 31	RING STRING	IMPACT SIE	OMIR PILS	EOT
Satellite meteorology	1			-	1	
Radar meteorology					-	
GNSS meteorology						
Atmospheric modelling						
Wave modelling						
Ocean modelling						
Data assimilation						<u> </u>
Ensemble forecast					-	
Weather routing		· · · ·				
Marine radars			•			
Ocean measurements						
Coastal monitoring						





**Objective**: supporting the development of the FORUM mission selected at the final stage of the ESA EE-9 (Earth Explorer 9) call.

FORUM: Far-infrared-Outgoing-Radiation Understanding and Monitoring.

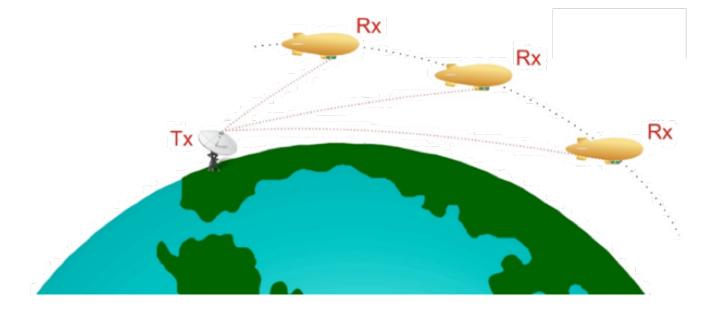


projects activities	
Satellite meteorology	
Radar meteorology	
GNSS meteorology	
Atmospheric modelling	
Wave modelling	
Ocean modelling	
Data assimilation	
Ensemble forecast	
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Marine radars	
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**Objective**: Sounding Water Vapour by Attenuation Microwave Measurements by means of a new instrument concept capable to operate from ground and/or aerospace platforms, that quantifies the water vapour content through a remote measurement (differential measurements of signals at two frequencies in the range 18-2-19.2 GHz)

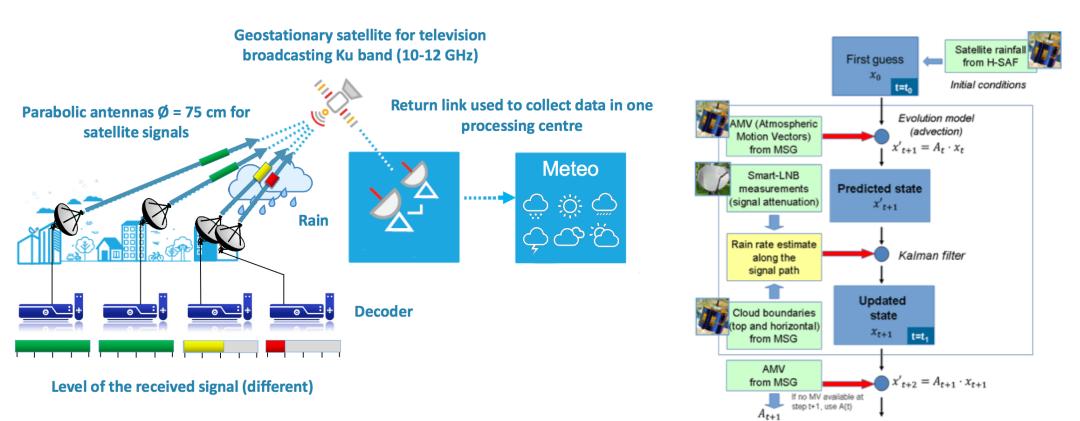


<b>projects</b>	Seller	SWALL		
activities	ľ	**		
Satellite meteorology				
Radar meteorology	_			
GNSS meteorology				
Atmospheric modelling				
Wave modelling				
Ocean modelling				
Data assimilation				
Ensemble forecast				
Weather routing				
Marine radars				
Ocean measurements				
Coastal monitoring				





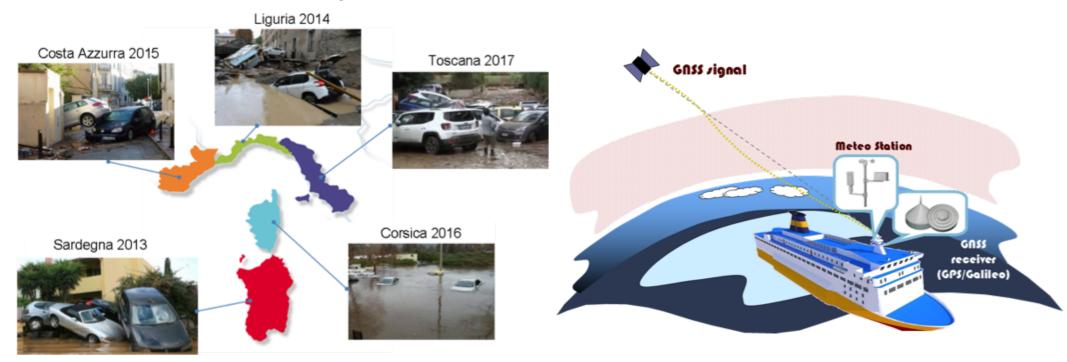
**Objective**: Measuring precipitation from the attenuation of satellite communication signals using two-ways decoders (Smart LNB).



projects activities	SCIER	S MANA	EPOCAS,
Satellite meteorology			
Radar meteorology			
GNSS meteorology			
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Wave modelling			
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**Objective**: upgrading the forecasting and management capabilities of coastal extreme events and their ground effects.

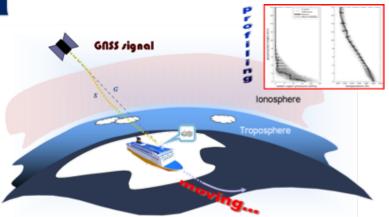


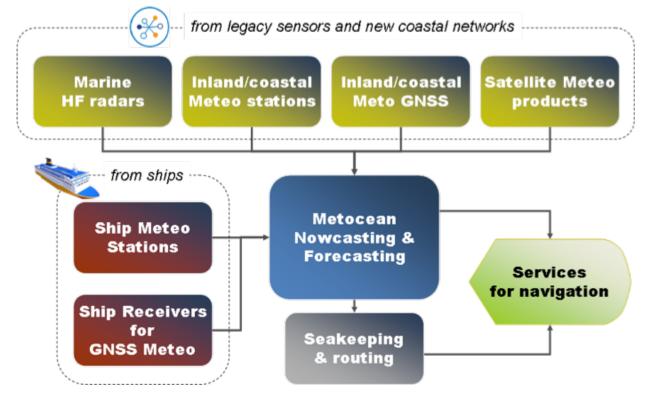
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projects activities			*OCA57	OTERINA 3E
Satellite meteorology				
Radar meteorology				
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Atmospheric modelling				
Wave modelling				
Ocean modelling				
Data assimilation				
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PROFUMO



**Objective**: developing weather-based operational services for reducing fuel consumption and risks in maritime transport.

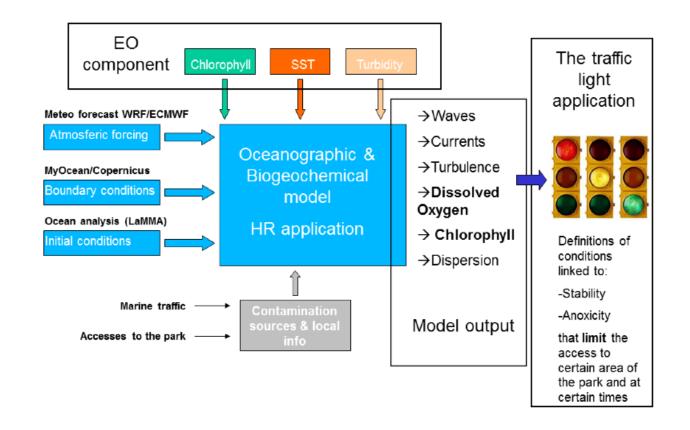




<b>projects</b>	SCI	SWAMA A	EPOR.	OTED P	OR .
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Satellite meteorology					
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Wave modelling					
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Ocean measurements					
Coastal monitoring					



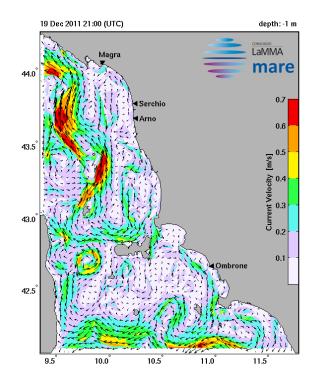
**Objective**: creating services for MPA (Marine Protected Area) management and sustainable exploitation.



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projects activities	SURF. SHRAMA	PROTERINA 34	The state	
Satellite meteorology				
Radar meteorology				
GNSS meteorology				
Atmospheric modelling				
Wave modelling				
Ocean modelling				
Data assimilation				
Ensemble forecast				
Weather routing				
Marine radars				
Ocean measurements				
Coastal monitoring				



**Objective**: analysis of interaction between Ports and Marine Protected Area (MPA) through sampling biological species, laboratory analyses, current measurements using HF radars, oceanographic modelling.



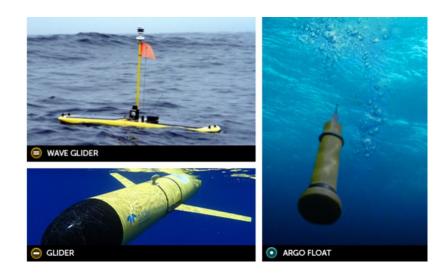


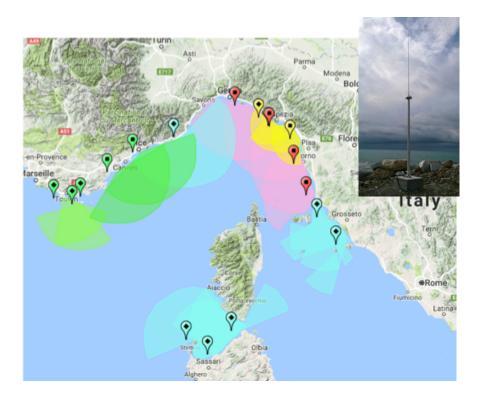
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Satellite meteorology	
Radar meteorology	
GNSS meteorology	
Atmospheric modelling	
Wave modelling	
Ocean modelling	
Data assimilation	
Ensemble forecast	
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## SICOMAR PIUS Interreg



**Objective**: Development of new services for safety in maritime transport through the set up of trans-boundary measurement networks (for the nord-west Mediterranean Sea) and of precise modelling for the sea state.



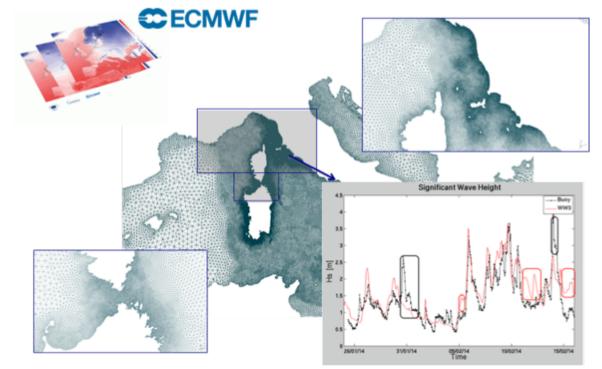


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Atmospheric modelling					
Wave modelling					
Ocean modelling					
Data assimilation			_		
Ensemble forecast					<u>-</u>
Weather routing		-			
Marine radars					
Ocean measurements					
Coastal monitoring					



**Objective**: management of risks associated with coastal erosion and coastal impacts of the climate change, through the development of forecasting models for short-term coastal risks (storm risk, coastal flooding, rip currents) and models for the management of

coastal erosion (long-term morphodynamic modelling, coastal climatology, sea level rise effects).



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Ocean modelling					
Data assimilation					-
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Marine radars					
Ocean measurements					
Coastal monitoring					

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Ocean modelling						_
Data assimilation						
Ensemble forecast					_	
Weather routing						
Marine radars			-			
Ocean measurements						
Coastal monitoring						