Strategie for the CMEMS Ocean State Report ISSUE #3



Marine Monitoring

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THE OCEAN STATE REPORT

Marine Monitoring

OSR #1 & OSR #2: Content and expected audience

Essential Variables

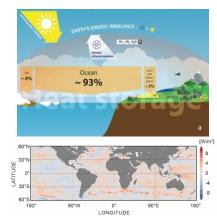










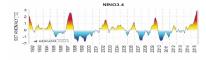


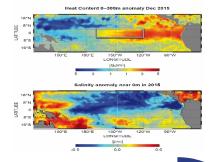
Ocean climate

European Seas



Remarkable events





Scientific community

Policy and decision makers, Blue Economy European and international agencies and organisations, Regional Sea Conventions

General public awareness

> European Commissio

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OCEAN STATE REPORT ТНЕ

Ocean climate

Marine Monitoring

Essential Variables

OSR #1 & OSR #2: Content and expected audience

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Conventions ipcc 💩

European Seas

European Commission

Remarkable events







Monitoring

Ocean State Report #1

- Written by 80 scientific experts
 - Collaboration of more than 25 European institutions
 - Fundamental step forward into the development of regular Copernicus Marine Service annual reporting



- Published in the Journal of Operational Oceanography
- Independent peer review
- Open access

ACHIEVMENTS:

- Currently more than 6200 views since publication
- Essential element of side event at UN Ocean conference (JUN 2017)
- Presented at COP23 (EC Pavillon)
- Mentioned as Copernicus achievement
- * Honored by DENNY Me





Ocean State Report #2

Monitoring



ISSUE #2: THE COPERNICUS MARINE ENVIRONMENT MONITORING SERVICE OCEAN STATE REPORT 2017

Still under review...



CMEMS ocean monitoring & reporting

Mar Monit						
	Develop fundamental source of CMEMS value-added information and CMEMS ocean indicators on ocean physical and biogeochemical state, variablity and change from the past to the present for the global ocean and the European regional seas.					
	Base	Based on CMEMS & C3S MYP, this can be achieved through:				
	• E • Ic E	High-level scientific evaluation through mobilisation of scientific network Evaluation and error quantification Identify dedicated information need through exchanges with agencies and European & international bodies (e.g. EC, EEA/MSFD, ICES, C3S, WMO, SDG,) Several levels of communication (web, summary, peer reviewed, conferences)				
	CMEMS OCEAN MONITORING AND REPORTING					
		OCEAN STATE	VARIABILITY AND RT		CLIMATE CHANGE	
	GLOBAL: Link to SDG, C3S, BAMS, GCP, WMO, Ocean & Climate platform,					

REGIONAL: Link to EEA/MSFD, ICES, EC, EuroGOOS, ...

CMEMS ocean monitring & reporting

Marine Monitoring

Roadmap 2020 for CMEMS Ocean monitoring & reporting

- New sections (e.g. waves, coral bleeching)
- EV: move to more coherence (global & regional) & simplify
- Increase consistency of plots
- Establish link to European & international bodies

- New sections (e.g. ph)
- Increase BGC

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- Increase regional focus
- Improve uncertainties
- Move to consistent plots
- Establish link to European & international bodies

- Add new sections
- Review consistency with OMI webpage
- Manifest link with CB/C3S
- Propose contribution to BAMS & other international bodies

OCEAN MONITORING INDICATORS (CMEMS CATALOGUE)



Ocean State Report #3



CHAPTER 1: OCEAN MONITORING INDICATORS

- OMIs introduced in the two previous issues of the OSR:
- the figures for monitoring
- statement of main outcome
- "light review" process

CHAPTER 2: NEW OCEAN MONITORING INDICATORS AND SPECIFIC CASE STUDIES

ocean acidification (tbd)

- New monitoring indicators not introduced in OSR #1 or #2.
- Specific case studies
- Normal peer review

CHAPTER 3: REMARKABLE EVENTS DURING 2017

• As OSR #2.

ISSUE #3: THE COPERNICUS MARINE

ENVIRONMENT MONITORING SERVICE OCEAN

STATE REPORT 2018

Introduction: Addition of solicited thematic box:

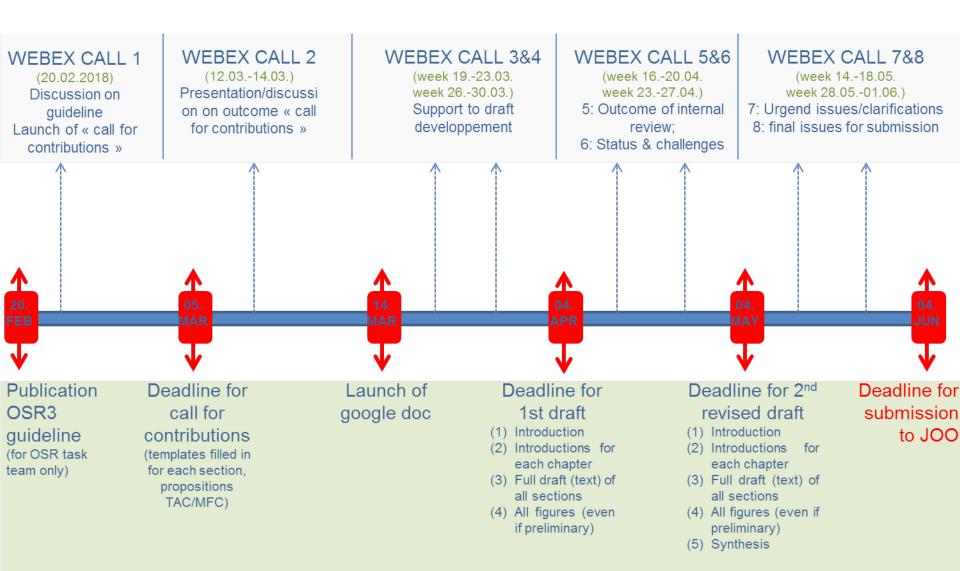
Normal peer review





Marine Monitoring

PREPARATION PHASE OF OSR #3 UP TO SUBMISSION TO JOO





Thank you !

Monitoring





Marine Monitoring IMPLEMENTATION OF COPERNICUS MARINE SERVICE OCEAN MONITORING INDICATORS

VISUALISATION

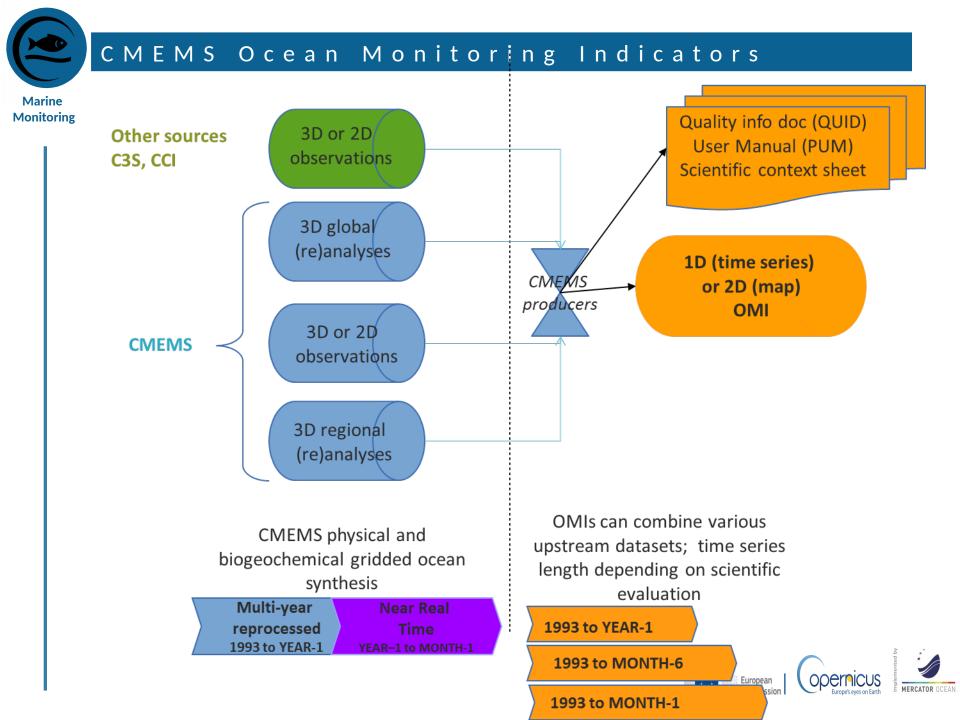
DOCUMENTATION DATA DISTRIBUTION











Ocean Monitoring Indicators

Marine Monitoring

IMPLEMENTATION OF COPERNICUS MARINE SERVICE OCEAN MONITORING INDICATORS

VISUALISATION

DOCUMENTATION DATA DISTRIBUTION







FIRST STEP OF IMPLEMENTATION: FEBRUARY/MARCH 2018

OMI OCEAN HEAT CONTENT

- Global mean (1993-2016)
- Map of regional trends (1993-2016)
- Map of 2016 anomalies (1993-2016)

OMI SEA ICE

- Arctic SIE (1993-2016; 1979-NRT)
- Antarctic SIE (1993-2016)

OMI SEA LEVEL

• Global mean sea level (1993-NRT)

