

Remote Sensing for Ocean – Atmosphere Interaction Studies and Applications

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1 – 3 December 2021, online



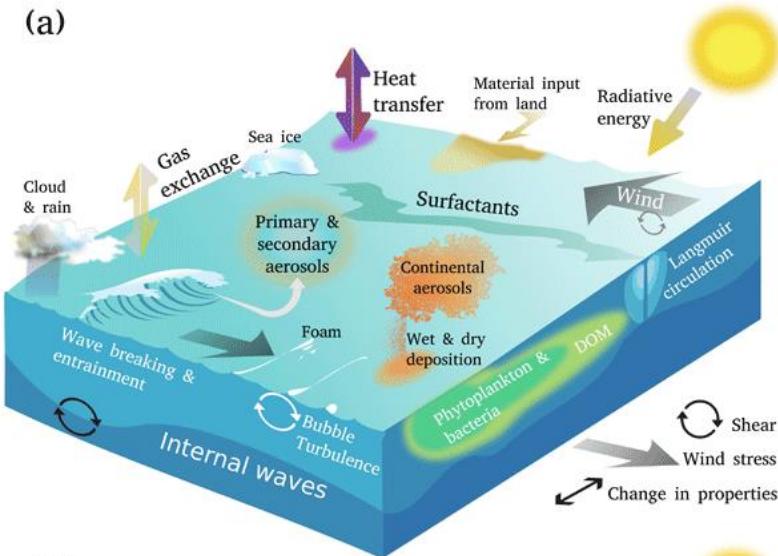


What this Workshop is about

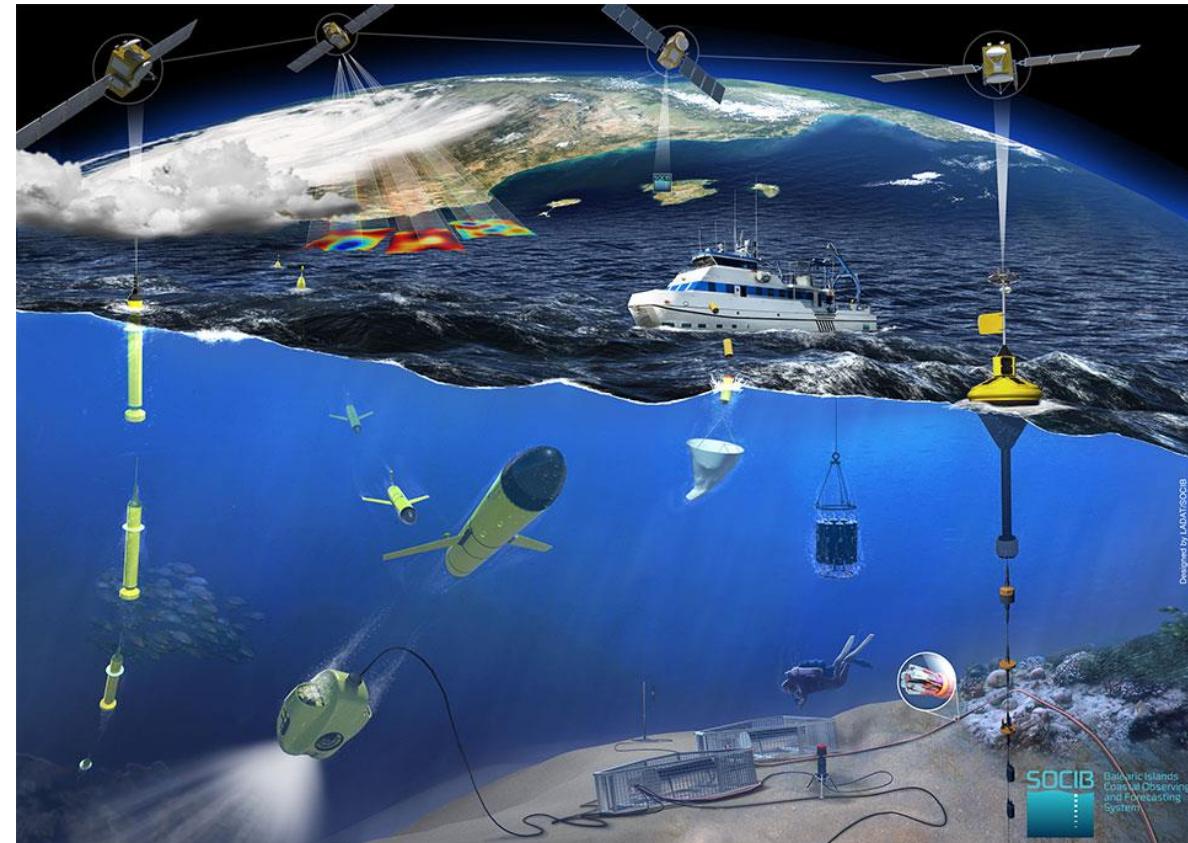
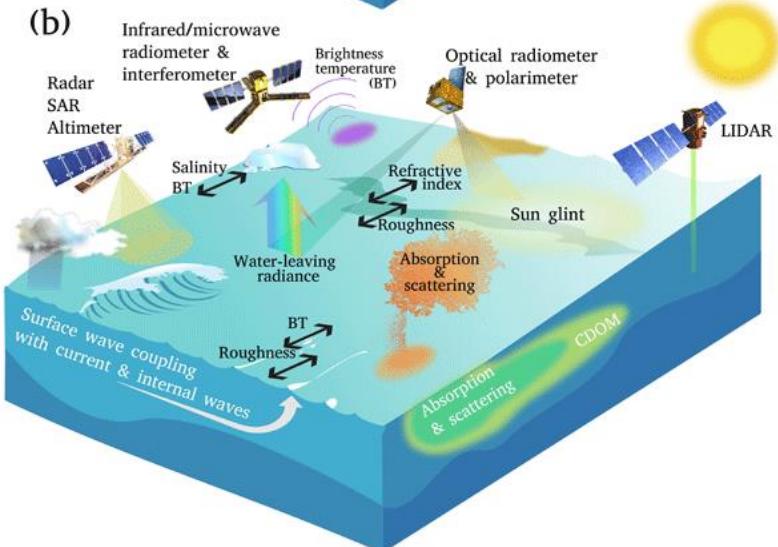
www.eumetsat.int

Ocean – Atmosphere Interactions

(a)



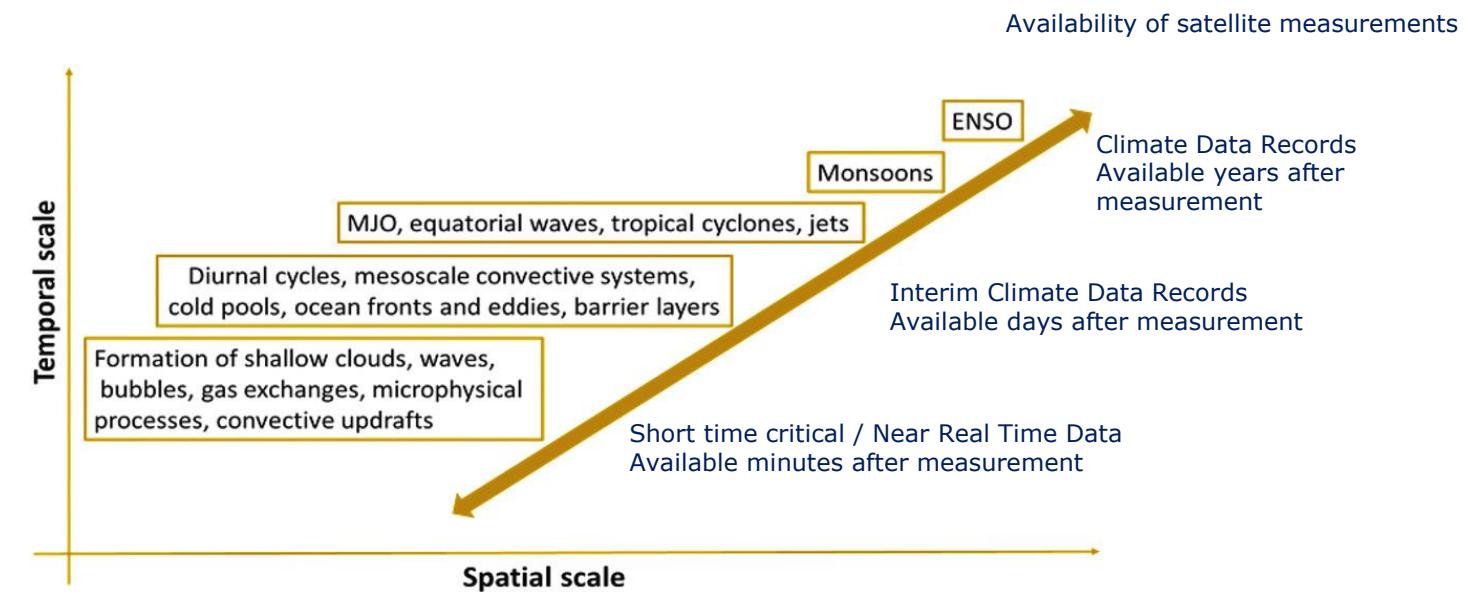
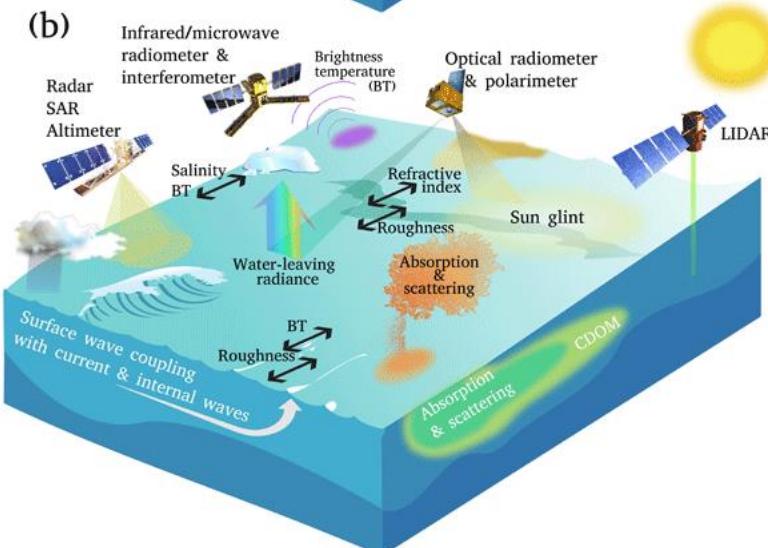
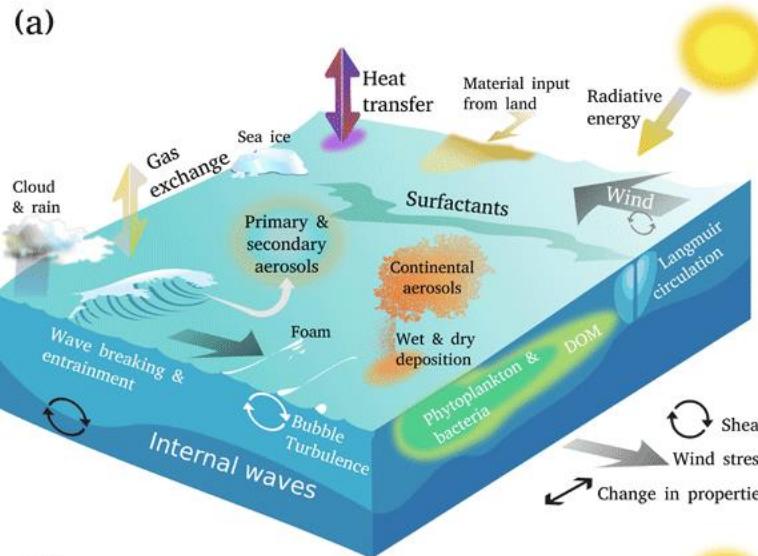
(b)



www.socib.eu

Neukermanns et al, <https://doi.org/10.1525/elementa.331>

Ocean – Atmosphere Interactions



BAMS,101,3 DOI:10.1175BAMS-D-19-0261.1, modified



Exchange

- ... among scientists working on Ocean – Atmosphere exchanges
 - New findings and achievements
 - Open questions
- ... between scientists and (satellite) data providers
 - What data are available from where?
 - How can satellite data help?
 - What data / services are missing?



- To get an overview on
 - ongoing research and open science question
 - available satellite data and services
- To identify
 - observations gaps
 - missing services, tools
 - training and information needs
 - possibilities for collaborations



Agenda

Time (UTC!)	Day 1 - Dec 1st	Day 2 - Dec 2nd	Day 3 - Dec 3rd	v.eumetsat.int
13:00	Welcome with introduction to EUMETSAT, SOLAS, Copernicus Minhan Dai (SOLAS), P. Ruti (EUMETSAT)	Session 3 Atmospheric deposition, dust, clouds - Chair: M. Kanakidou Hongbin Yu, NASA GSFC, USA; Satellite perspectives of trans-continental transport and deposition of mineral dust	Session 5 Data providers and services – Chair: E. Obligis M.H. Rio, ESA: Satellite observation to monitor Air-Sea interaction – European Space Agency	
13:15	Workshop intro , aims and structure C. Traeger (EUMETSAT)	N. J. Cosentino, Instituto de Geografía, Pontificia Universidad Católica de Chile: Satellite tools to explore the relationship between dust and primary producers' biomass	S. Burgess: ECMWF: The Copernicus Climate Change Service	
13:30	Session 1 Air-sea interface and fluxes - Chair: F. Fierli C. A. Clayson (Woods Hole, USA): Satellite-derived climate data records of air-sea fluxes: progress and issues.	P. Dagsson Waldhauserova, The Agricultural University of Iceland, Borgarnes): High Latitude Dust observation with focus on Iceland and Antarctica	Data Discovery - Climate data and Services (ESA, CMEMS, ECMWF) - J. Wagemann, C. Derval, C. Macintosh	
13:45	C. Gentemann, Farallon Institute California, USA:	Session 4 Air-sea interface and fluxes – Chair: A. Alvera-Azcárate J. Shutler, University of Exeter, UK: Satellites are now critical for observing the air-sea interface, CO ₂ fluxes and the CO ₂ sink: recent advances and new opportunities.		
14:00	Session 2 Data providers – Chair: A. Alvera Azcarate F. Fierli, H. Evers-King, EUMETSAT: Overview on the EUMETSAT product portfolio for Marine – Atmosphere Exchanges	L. P. Pezzi, Laboratory of Ocean and Atmosphere Studies (LOA), Earth Observation and Geoinformatics Division (OBT), National Institute for Space Research (INPE), São José dos Campos, SP, Brazil: Mesoscale oceanic eddy induced modifications to air-sea heat and CO ₂ fluxes.	Break	
14:15	Corinne Derval, CMEMS: Overview on the CMEMS product portfolio	S. Marullo, ENEA Italy: Air–Sea Interaction in the Central Mediterranean Sea: Assessment of Reanalysis and Satellite Observations	Round-table and Q&As - Data and service needs Chairs: E. Obligis, M. Kanakidou, J. Shutler, H. Evers-King- Rapporteur: Anna Rutgersson	
14:30	Break	Break		
14:45	Poster Session - presentations and breakout rooms	Data Discovery - Remote Sensing datasets (EUMETSAT, CMEMS) H. Evers-King, J. Wagemann	Synthesis	
15:00				
15:15				
15:30		Round-table and Q&A. - Science priorities and needs - from Session 1,3,4 Chairs: Anne O'Carroll, Julien Chimot, Rudiger Lang, A. Alvera-Azcárate, S. Gasso - Rapporteur: Federico Fierli		
15:45				
16:00	Wrap-up and outlook on day 2			



- Venue: ZOOM
- Questions and other contributions: Slido #oceanatmos
- Posters: Padlet
- Workshop Page:
<https://training.eumetsat.int/course/view.php?id=421>
- Please take a few minutes to fill in the poll, link shared in the chat



Thank you!
Questions are welcome.