

Forum on “Network of oceanic lidars for the validation of Ocean Color satellite missions” – May 20–22, 2025

Agenda

Convenors: Kelsey Bisson, Davide Dionisi, Cédric Jamet, Michael Rast, Iwona Stachlewska and Yudi Zhou.

Tuesday 20 May 2025

10:30 - 11:00: Arrival of the participants

11:00 - 11:15: Welcome remarks (Cédric Jamet, Davide Dionisi)

11:15 – 11:30: Welcome remarks from ISSI (Michael Rast)

11:30 – 12:30: Round table

12:30 - 14:00: Lunch break (outside, not organized)

14:00 - 14:15: Presentation of the goal of the ISSI FORUM (C. Jamet, D. Dionisi)

14:15 – 14:35: What is ocean color and why we need lidar? (Cédric Jamet)

14:35 – 14:55: Lidar applications for ocean color (Davide Dionisi)

14:55 – 15:15: Satellite oceanic lidar (Kelsey Bisson)

15:15 – 15:35: Arctic applications (Siqi Zhang)

15:35 – 16:05: LUCE space mission (Paolo Di Girolamo)

16:05 – 16:30: Break

16:30 – 18:00: Discussions:

Wednesday 21 May 2025

08:30 - 12:00: In situ oceanic lidar instrumental characteristics I

08:30 – 08:50: Lidar solutions at CIMEL (Stéphane Victori)

08:50 – 09:10: Lidar solutions at Raymetrics (George Georgoussis)

09:10 – 09:30: Lidar solutions at BEAM-Sea (Fraser Dalgleish)

09:30 – 09:50: Lidar solutions at LifeLidar (Vadim Pelevin)

09:50 - 10:20: Lidar Working Group at NASA GSFC (Kelsey Bisson)

10:20 – 10:50: Coffee break

10:50– 12:00: Discussions on requirements for oceanic profiling lidar and to build commercial lidars

12:00 – 13:30: Lunch break (outside, not organized)

13:30 - 17:30: In situ oceanic lidar instrumental characteristics I

13:30 – 13:50: Airborne oceanic lidar in China (Peng Chen)

13:50 – 14:20: Shipborne oceanic lidar in China (Yudi Zhou and Mingjia Shangguan)

14:20 – 14:40: Shipborne oceanic lidar in Europe (Federico Angelini and Sabine Marty)

14:40 - 15:00: Airborne oceanic lidar in US (Chris Hostetler)

15:00 - 15:20: Shipborne oceanic lidar in Australia (David Spence)

15:20 – 15:50: Coffee break

15:50 - 18:00: Discussion on characteristics needed for an oceanic profiling lidar (which wavelengths, which vertical resolution, which energy, ..)

19:45: Group dinner at the Tramdepot

Thursday 22 May 2025

08:30 - 12:00: oceanic lidar algorithms

09:30 - 09:50: Oceanic lidar algorithms (Cédric Jamet)

09:50 – 10:10: Multiple-scattering correction in the ocean (Yudi Zhou)

10:10 – 10:30: Oceanic lidar algorithms for current space-borne lidar (Kelsey Bisson/Xiaomei Lu)

10:30 – 12:00: Discussion on algorithms requirements (ocean variables to be measured through lidars, uncertainties levels of data products ...)

12:00 - 13:30: Lunch break (outside, not organized)

13:30 - 18:00: oceanic lidar networks

13:30 - 13:50: ACTRIS/EARLINET (N. Siomos)

13:50 - 14:10: AERONET – OC (M. Talone)

14:10 – 14:30: Example of a monitoring station (Iwona Stachlewska)

14:30 - 16:00: Discussion on in-situ oceanic lidar network (geographical location, observation regularity, standardization of measurements, data products)

16:00 - 16:30: Coffee break

16:30 - 17:30: Final discussion and recommendations

17:30 - 18:00: Wrap-up and conclusions