

Workshop on the Validation of Satellite-derived Optical and Water Quality Parameters for Coastal and Inland Waters
7-9 June 2022

Program

Tuesday 7 June

08:30-09:00	Registration
09:00-09:15	Welcome – Brad Pierce, Director, <i>Space Science and Engineering Center</i> Logistics – Steve Greb
09:15-09:30	Defining Scope of Validation Activities and Workshop, Leads – Steve Greb and Colleen Mouw
09:30-10:15	Review and Assessment of Current Validation Efforts, Lead – Steve Greb Menghua Wang, <i>NOAA</i> Juan Ignacio Gossn, <i>EUMETSAT</i> Arnold Dekker, <i>Australian AquaWatch</i>
10:15-10:45	<i>Coffee and Tea Break</i>
10:45-12:00	Future Validation Needs of User Groups / Target Levels for Uncertainties, Lead – Wilson Salls Presentations, followed by Panel Discussion: Emily Smail, <i>NOAA / U Maryland / GEO AquaWatch</i> Agency and Public Needs / Confidence Level in Applications Dulcinea Avouris, <i>UC Merced</i> Research and Science Needs Jeremy Werdell, <i>NASA Goddard Space Flight Center</i> New Mission Needs Philipp Saile, <i>Federal Inst. of Hydrology, Germany</i>
12:00-13:00	<i>Lunch</i> Guest speaker: Richard Lathrop , <i>Center for Limnology, UW-Madison</i> , History of Madison Lakes

13:00-14:00	<p>Field Measurements, Lead – Giuseppe Zibordi</p> <p>Priority optical, biogeochemical & ancillary quantities Instrumentation Radiometry protocols Calibration (implying traceability) & characterization Quality assurance & quality control Uncertainties</p>
14:00-15:00	<p>Breakout Session I</p> <p>A Step Toward Standardization of Measurements. Finalization of recommendations for minimum/compulsory:</p> <p>Field measurements; Instruments specifications and requirements; Instruments calibration and characterization; Measurement protocols and data processing; Quality assurance of measurements and quality control of products; Uncertainty estimate; Inter-calibrations and inter-comparisons.</p> <p>And time permitting on:</p> <p>Generic field measurement requirements; Requirements for matchups construction; Revision/update and translation of current protocols.</p>
15:00-15:30	<i>Coffee and Tea Break</i>
15:30-16:30	Report-outs, Discussions, and Recommendations
16:30-17:30	Possible Instrument Demo, Pontoon Boats
18:00-20:00	<i>Outdoor Picnic Mixer</i>
Wednesday 8 June	
08:30-09:00	<i>Coffee and Tea Break, Daily Check-in, Agenda Repair</i>

09:00- 10:00	<p>Laboratory Measurements, Lead – Bridget Seegers</p> <p>Topics:</p> <ul style="list-style-type: none"> Instrumentation Calibration Standardization of methods Quality assurance, quality control and processing Priority variables, minimum/desired essential optical and biogeochemical parameters Uncertainty <p>Speakers:</p> <ul style="list-style-type: none"> Joaquin Chaves, <i>NASA Ocean Ecology Lab</i>, Lessons Learned from Experience Coordinating Protocols Joan Albert Sánchez Cabeza, <i>ICML, Universidad Nacional Autónoma de México (UNAM)</i>, REMARCO Network Lachlan McKinna, <i>Go2Q</i>, Impacts of Measurement Uncertainty
10:00-10:30	<p><i>Coffee and Tea Break</i></p>
10:30-11:30	<p>Breakout II</p> <ul style="list-style-type: none"> Priority variables How to ensure lab protocol standardization Quality control/assurance: How? Who? Uncertainty considerations
11:30-12:00	<p>Report-out, Discussion, Recommendations</p>
12:00-13:00	<p><i>Lunch</i></p>
13:00-14:00	<p>Walking tour of nearby native American effigy mounds</p>
14:00-15:00	<p>Global Databases, Lead – Nima Pahlevan</p> <ul style="list-style-type: none"> Current archives Data quality assessment Accessibility Product specification / uncertainties Data formats Metadata

Speakers:

Philipp Saile, *UN/Federal Institute of Hydrology, Germany, GEMStat*

Adam Varley, *University of Stirling, LIMNADES*

Violeta S. Calzado, *NASA GSFC Ocean Ecology Lab/UMBC, NOMAD/SeaBASS*

Daniel Gurlin, *GEO AquaWatch, GLORIA*

15:00-15:30	<i>Ice Cream Social</i>
15:30- 16:30	Breakout III
16:30-17:30	Report-out, Discussion, Recommendations
17:30	<i>Dinner on your own</i>

Thursday 9 June

08:30-09:30	Working Towards a Global Validation Network, Lead – Colleen Mouw Scope Political and institutional barriers Network coordination Support and funding
09:30-10:00	<i>Coffee and Tea Break</i>
10:00-11:00	Breakout Session IV
11:00-12:00	Report-out, Discussion, Recommendations
12:00-12:30	Wrap-up and Meeting Adjournment
12:30-13:30	<i>Lunch</i>
6:00	<i>BBQ dinner (offered at Greb house for those not traveling until Friday/Saturday)</i>