

# IOCS-2023 Week-at-a-Glance

Mon, Nov 13	Tue, Nov 14	Wed, Nov 15	Thu, Nov 16	Fri, Nov 17
<b>Badge Collection</b> USF Student Center, 2nd Floor 8 am - 2 pm	8:00 a Badge collection 8:15 a (Hyperspectral TF, Coral Room) 8:30 a 8:45 a	Badge collection	Badge collection	
<b>GEO AquaWatch Meeting</b> Ballroom 3 8:30 am - 5 pm  (OPP Working Group, Coral Room)	9:00 a Welcome Address 9:15 a 9:30 a <b>Keynote 1</b> Howard Gordon 9:45 a 10:00 a	<b>Keynote 2</b> Astrid Bracher  BW Reports 1, 2, 3 <b>Poster Session 2</b> New & Emerging Tech  with coffee break	<b>Keynote 4</b> Srinivasa Kumar Tummala  BW Reports 4, 5, 6 <b>Poster Session 4</b> Ecosystem Function & Change & Change with coffee break	<b>Keynote 6</b> Ajit Subramaniam  Economics of the Ocean Panel Discussion  <b>Poster Session 6</b> Other OC Research with coffee break
<b>IOCS Training Courses</b> <b>SeaDAS Training</b> USF College of Marine Science Marine Science Lab (MSL) Room 134 9 am - 5 pm	10:15 a <b>Coffee Break</b> 10:30 a Recap of Recommendations 10:45 a 11:00 a Agency Presentations 11:15 a NASA, NOAA, CSA, CONAE 11:30 a 11:45 a	<b>Agency Presentations</b> SIO, ISRO, CSIRO JAXA, KIOST,	Agency Presentations ESA, NCEO, CNES, EUMETSAT	<b>Poster Session 6</b> Other OC Research with coffee break  BW Reports 7,8,9 Community Town Hall
<b>CoastWatch</b> Student Center, Regatta Room, 1st Floor 9 am - 12 pm	12:00 p <b>Lunch</b> 12:15 p 12:30 p (GLIMR Team, Coral Room) 12:45 p	<b>Lunch</b>	<b>Lunch</b>	Closing Address
<b>ThoMaS toolkit</b> Ballroom 1 9 am - 12 pm	1:00 p <b>Poster Session 1</b> New & Emerging Tech Other OC Research 1:15 p 1:30 p 1:45 p	<b>Keynote 3</b> Steven Miller  <b>Poster Session 3</b> New & Emerging Tech	<b>Keynote 5</b> Marina Marrari  <b>Poster Session 5</b> Ecosystem Function & Change Societal Value of OC	(OWT Working Group) Coral Room
<b>SeaHawk-HawkEye</b> USF Student Center, Ocean Room 9 am - 12 pm	2:00 p Breakout Workshops 1, 2, 3 2:15 p 2:30 p 2:45 p 3:00 p 3:15 p	Breakout Workshops 4, 5, 6  <b>Coffee Break (optional)</b>	Breakout Workshops 7, 8, 9  <b>Coffee Break (optional)</b>	
<b>MAPEO-water</b> Student Center, Regatta Room, 1st Floor 2 pm - 5 pm	3:30 p <b>Coffee Break (optional)</b> 3:45 p 4:00 p 4:15 p 4:30 p 4:45 p			
<b>HyperCP</b> Ballroom 1 2 pm - 5 pm	5:00 p Icebreaker Reception USF Ballrooms (5 pm - 7 pm) Music by Flamenco Symphony	<b>The Ocean on Canvas</b> The Studio@620 (5:30 - 9pm)	Happy Hour The Hub (5 pm - 7 pm) RSVP required  <i>The Ocean on Canvas</i> Studio@620 (5:30 - 9pm)	
				(OC-SVC Task Force) (Sat 18 & Sun 19) USF College of Marine Science Marine Science Lab, Rm 134

\* Badge & package collection is open Mon 8 am - 2 pm , Tues 8 - 9 am, Wed & Thur 8 - 8:30 am.

## Breakout Workshops

- Beyond Chlorophyll-a: New trophic state indicators for optically complex waters
- Remote sensing of aquatic litter and debris
- Inventory of current ocean colour mission validation activities
- Global carbon budget for the land to ocean aquatic continuum (LOAC) from remote sensing
- The Value of Ocean Color for the Benefit of Society: status and change in water quality and ecosystems
- Ocean Colour Satellite Sensor Calibration
- Priority list of marine biodiversity metrics to observe from space
- Achieving long-term consistency in cross-sensor ocean color data products
- Lidar applications for ocean color

## Poster Sessions

- New & Emerging Tech, Numbers: **1 – 5, 7 – 14, 16, 17, 19 – 22**, Other OC Research, Numbers: **125 – 131**
- New & Emerging Tech, Numbers **6, 15, 18, 23 – 43**, Other OC Research, Number **156**
- New & Emerging Tech, Numbers **44 – 76**
- Ecosystem Function & Change, Numbers **77 – 98**
- Ecosystem Function & Change, Numbers **99 – 110**, Societal Value of Ocean Colour, Numbers **111 – 124**
- Other OC Research, Numbers **132 – 155, 157 – 167**

## General Plenary

- Keynote talks
  - Breaks
  - Poster sessions
  - Breakout workshops
  - Social Events
  - Other
- (Closed side meetings)

## Opening Session

- 8:00 - 9:00 Badge collection & Sign-in  
 9:00 - 9:25 [Welcome & IOCCG overview](#) - **Shubha Sathyendranath** (IOCCG Chair)  
 9:25 - 9:30 [USF Welcome](#) - **Thomas Frazer**, Dean, College of Marine Science, University of South Florida

## Oral Session 1

Session Chair: **David Antoine**

- 9:30 – 10:15 **Keynote 1: A History of Ocean Colour.** **Howard Gordon** (remote)

## 10:15 – 10:30 Coffee Break

- 10:30 - 11:00 [Recap of previous IOCS recommendations.](#) **Cara Wilson**

### Agency Presentations

- 11:00 – 11:15 [Emerging applications and science from NASA.](#) **Laura Lorenzoni** (NASA, USA)  
 11:15 - 11:30 [NOAA ocean colour science & applications.](#) **Menghua Wang** (NOAA, USA)  
 11:30 - 11:45 [Canadian ocean colour activities.](#) **Geneviève Gariépy** (CSA, Canada) (remote)  
 11:45 - 12:00 [Status of SABIA-Mar mission and ocean applications of CONAE.](#) **Carolina Tauro** (CONAE, Argentina) (remote)

## 12:00 – 1:00 Lunch Break

## 1:00 – 2:30 Poster Session 1

1:00 - 1:15 [Poster lightning talks](#)

## 2:30 – 5:00 Breakout Workshops 1, 2 & 3

<b>Breakout Workshop 1</b> Ballroom 1	<b>Breakout Workshop 2</b> Ballroom 2	<b>Breakout Workshop 3</b> Ballroom 3
<a href="#">Beyond Chlorophyll-a: New trophic state indicators for optically complex waters</a>	<a href="#">Remote sensing of aquatic litter and debris</a>	<a href="#">Inventory of current ocean colour mission validation activities</a>
Chairs: Daniel Odermatt Michael Sayers Astrid Bracher	Chairs: Madeline Cowell Shungu Garaba	Chairs: Lachlan McKinna Jeremy Werdell

## 5:00- 7:00 Icebreaker Reception (USF Ballrooms)

**Oral Session 2**Session Chair: **Emmanuel Devred**

8:30 - 9:15 **Keynote 2:** Hijacking other thematic satellite sensors for ocean colour application. **Astrid Bracher**  
 9:15 - 9:30 Reports from breakout workshops 1, 2 and 3

9:30 – 10:45 **Poster Session 2 (with Coffee Break)**9:30 - 9:45 [Poster lightning talks](#)**Agency Presentations**

10:45 - 11:00 [Progress in China's OC satellite missions & remote sensing application technologies.](#) **Xianqiang He** (SIO, China) (recorded)  
 11:00 – 11:15 [Ocean Colour science and applications at ISRO.](#) **PV Nagamani** (ISRO, India) (remote)  
 11:15 - 11:30 [Australian Ocean Colour activities.](#) **Mark Baird** (CSIRO, Australia)  
 11:30 - 11:45 [JAXA GCOM-C research and applications.](#) **Hiroshi Murakami** (JAXA, Japan)  
 11:45 - 12:00 [GOCI-II, current status, validation and applications.](#) **Jongkuk Choi** (KIOST, Republic of Korea)

12:00 – 1:00 **Lunch Break****Oral Session 3**Session Chair: **Jessie Turner**

1:00 - 1:45 **Keynote 3:** [A Glow from Below: Bioluminescent Milky Seas and their Role in the Earth System.](#) **Steven D Miller**

1:45 - 2:30 **Poster Session 3**1:45 - 2:00 [Poster lightning talks](#)2:30 – 5:00 **Breakout Workshops 4, 5 & 6**

<b>Breakout Workshop 4</b> Ballroom 1	<b>Breakout Workshop 5</b> Ballroom 2	<b>Breakout Workshop 6</b> Ballroom 3
<a href="#">Global carbon budget for the land to ocean aquatic continuum (LOAC) from remote sensing</a>	<a href="#">The Value of Ocean Color for the Benefit of Society: status and change in water quality and ecosystems</a>	<a href="#">Ocean Colour Satellite Sensor Calibration</a>
Chairs: Hubert Loisel Claudia Giardino	Chairs: Veronica Lance Merrie Neely Emily Smail	Chairs: Gerhard Meister

**Optional Social Activities**

5:30 - 9:00 **The Ocean on Canvas** exhibition & live music [The Studio@620, 620 1st Ave S]

**Oral Session 4**Session Chair: **Alison Chase**

8:30 - 9:15 **Keynote 4: Societal application of ocean colour to fisheries information service.** **Srinivasa Kumar Tummala**  
 9:15 - 9:30 [Reports from breakout workshops 4, 5 and 6](#)

9:30 - 11:00 **Poster Session 4 (with Coffee Break)**9:30 - 9:45 [Poster lightning talks](#)**Agency Presentations**

11:00 - 11:15 [Ocean Colour application & research at ESA.](#) **Marie-Hélène Rio** (ESA) (remote)  
 11:15 - 11:30 [Ocean Colour activities in NCEO.](#) **Steve Groom** (NCEO, UK) (remote)  
 11:30 - 11:45 [Ocean Colour application & research at CNES.](#) **Hubert Loisel** (CNES, France)  
 11:45 - 12:00 [EUMETSAT's Ocean Colour application and research activities.](#) **Juan Ignacio Gossn** (EUMETSAT)

12:00 - 1:00 **Lunch Break****Oral Session 5**Session Chair: **Srinivas Kolluru**

1:00 - 1:45 **Keynote 5: Application of Ocean Color in Ecosystem Function, Community Development & Citizen Science.** **Marina Marrari**

1:45 - 2:30 **Poster Session 5**1:45 - 2:00 [Poster lightning talks](#)2:30 - 5:00 **Breakout Workshops 7, 8 & 9****Breakout Workshop 7**  
Ballroom 1[Priority list of marine biodiversity metrics to observe from space](#)

Chairs:  
 Victor, Martinez Vicente  
 Frank Muller-Karger  
 Alice Soccodato

**Breakout Workshop 8**  
Ballroom 2[Achieving long-term consistency in cross-sensor ocean color data products](#)

Chairs:  
 Brian Barnes,  
 Frédéric Mélin  
 Kelsey Bisson

**Breakout Workshop 9**  
Ballroom 3[Lidar applications for ocean color](#)

Chairs:  
 Cédric Jamet,  
 Davide Dionisi  
 Peng Chen

**Optional Social Activities**

5:00 - 7:00 **Marine Sci Happy Hour** [Maritime and Defense Technology Hub, 450 8th Ave SE] [RSVP-Required](#)

5:30 - 9:00 **The Ocean on Canvas** exhibition & live music [The Studio @ 620, 620 1st Ave S]

## Oral Session 6

Session Chair: **Paula Bontempi**

8:30 - 9:15

**Keynote 6:** Societal and economic benefits of ocean colour. **Ajit Subramaniam**

9:15 - 10:15

**Panel Discussion:** Economics of the Ocean

Panelists:

**Ajit Subramaniam**, Lamont Doherty Earth Observatory, Columbia University, USA

**Jim Sullivan**, Florida Atlantic University / Harbour Branch Oceanographic Institute, USA

**Žarko Kovač**, University of Split, Croatia

10:15 - 11:15

## Poster Session 6 (with Coffee Break)

10:20 - 10:35 [Poster lightning talks](#)

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## Closing Session

Session Chair: **Shubha Sathyendranath**

11:15 - 11:30

[Reports from breakout workshops 7, 8 and 9](#)

11:30 - 12:20

[Community Town Hall and Q&A. Space Agency Representatives](#)

12:20 - 12:30

[Closing Remarks - Shubha Sathyendranath](#)

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