International Ocean Colour Science Meeting 2019

Advancing Global Ocean Colour Observations

Atmospheric Correction under Complex/Extreme Environments

IOCS 2019 - Breakout Workshop #9

Busan, South Korea, 11th April 2019

Goal of the workshop

1. **Review the recent progress** achieved by the OC community on:
   - AC over complex waters
   - AC over complex atmosphere
   - Assessment of AC uncertainties in complex environment

2. **Help identifying the remaining gaps** in current AC algorithms

3. **Provide space agencies with the priority focus** that would extend the benefit of operational OC missions → recommendations

Organisation of the workshop

I. Atmospheric correction over optically-complex waters (chair: Constant Mazeran)	
9:35 - 9:45	Key findings of current IOCGG *WG Intercomparison of Atmospheric Correction Algorithms Over Optically-Complex Waters* – C. Jamet (ULCO)
9:45 – 9:55	Review of EUMETSAT Bright Pixel Correction for Sentinel-3/OLCI – C. Mazeran (SOLVO)
9:55 – 10:05	Review of ACIX activity for L8L/S2 AC over inland & coastal waters – N. Pahlevan (NASA/GSFC)
10:05 – 10:30	**Group discussion – recommendations for AC over complex waters**

II. Atmospheric correction over complex atmosphere (chair: Amir Ibrahim)	
10:30 - 10:40	AC of ocean-color imagery in the presence of absorbing aerosols – R. Frouin (UCSD)
10:40 - 10:50	NO2 correction over coastal waters – M. Tzortziou (CCNY)
10:50 – 11:20	**Group discussion – recommendations for AC over complex atmosphere**

III. Uncertainties of atmospheric correction (chair: Frédéric Mélin)	
11:20 – 11:30	Key findings of IOCCG WG *Uncertainties in Ocean Colour Remote Sensing* – F. Mélin (EC/JRC)
11:30 – 11:55	**Group discussion – recommendations for uncertainties under complex environment**

IV. Final group discussion (co-chair: Constant Mazeran, Amir Ibrahim, Robert Frouin)	
11:55 – 12:15	**Final discussion, preparation of the key message to the space agencies**

- **Keep your questions for the Group Discussions**
- **Coffee will be available from 10:00 outside the room**