## Hybrid SOLAS Open Science Conference 2022 Programme

### All Times in SAST

<table>
<thead>
<tr>
<th>Time</th>
<th>Friday, 23 Sep</th>
<th>Saturday, 24 Sep</th>
<th>Sunday, 25 Sep</th>
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### 08:00 - 09:00 Registration

- **Volumes 1, 2 & 3**
  - Early Career Scientist Breakout Groups
  - Breakout Groups registration
  - Breakout Groups registration

### 09:30 - 10:30 Coffee break

### 10:30 - 11:30 Time

#### 10:30 Workshop 1: Equity, Diversity & Inclusion within our science community

- **Participants only**
  - 10:30 Introduction by session chairs: A. Ramamoorthy (India) & J. Thomas (UK)
  - 10:45 C. Guieu (France): Introduction to the Conference Registration
  - 11:00 J. Dinasquet (USA): Theme 1: Ocean Biogeochemical Control on Variations of CO2 and their Impacts on the Surface Ocean
  - 11:20 J. Hauck (Germany): Theme 2: Air-sea Interactions and Flows of Mass and Energy

#### 10:30 - 11:30 Workshop 2: From Weather to Climate

- 10:30 Introduction by session chairs: J. Bell and A. Hargreaves
- 10:45 A. Ito (Japan): Microspectroscopic characterization and sub-surface processes of marine related aerosol particles - on-site
- 10:55 M. Cornejo (Spain): Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site
- 11:05 O. Wurl (Germany): Contrasting aerosol, cloud, precipitation and radiative interactions at low and high Southern Ocean latitudes - on-site
- 11:15 O. Crabeck (Belgium): Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site

### 11:30 - 12:30 Time

#### 11:30 Lunch

### 12:30 - 13:30 Time

#### 12:30 Coffee break

### 13:30 - 14:30 Time

#### 13:30 Workshop 3: Oceans - Variations of CO2 and their Impacts on the Surface Ocean

- 13:30 Introduction by session chairs: J. Bell and A. Hargreaves
- 13:45 P. Rickard (UK): Ocean CDR and the impact of anthropogenic forcing on the Southern Ocean - on-site
- 13:55 M. Mallet, (Australia): The tropical and subtropical South Atlantic Ocean biogeochemistry responses for the IPCC AR6 future scenarios using EcosyGCM - on-site
- 14:10 M. Ahmed (Canada): The impact of anthropogenic forcing on the Southern Ocean CO2 sink - on-site
- 14:20 P. Panda (India): Aerosol bioaccessible iron supply from sea ice - on-site

#### 13:30 Discussion session: Polar Oceans

- 13:30 Introduction by session chairs: K. Adish
- 13:45 N. Steiner (Canada): Sea ice-ocean coupled model - on-line
- 13:55 R. Oliveira (Brazil): Trends of sea-ice algae blooms from a global system in a warming world - on-site
- 14:10 H. Hayashida (Japan): Sea ice-ocean coupled model - on-line
- 14:20 A. Ito (Japan): Biophysical processes on projected changes in sea ice algae blooms from a global ice-ocean coupled model - on-line

#### 13:30 Discussion session: Carbon Dioxide Removal

- 13:30 Introduction by session chairs: D. Hamilton (USA) & E. van Doorn (UK)
- 13:45 E. Mahu (Ghana): HaloBATS: An autonomous research-catalyst for high-resolution measurements of the sea surface micro-layer - on-site
- 13:55 P. Monge (Spain): Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site
- 14:10 M. Cornejo (Spain): Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site
- 14:20 M. Kanakidou and T. Latif: Ocean biogeochemical control on atmospheric chemistry studies: mind the gaps - on-site

### 14:30 - 15:30 Time

#### 14:30 Workshop 4: Sea-air transfer and dispersal of coastal sea spray aerosols - on-site

- 14:30 Discussion session: Sea-air transfer and dispersal of coastal sea spray aerosols - on-site
- 14:45 J. Hauck (Germany): Theme 2: Air-sea Interactions and Flows of Mass and Energy
- 15:05 J. Hauck (Germany): Theme 2: Air-sea Interactions and Flows of Mass and Energy

#### 14:30 Coffee break

### 15:30 - 16:30 Time

#### 15:30 Workshop 5: Strengthening Partnerships between OASIS and the Global South

- 15:30 Introduction by session chairs: A. Ito and P. Panda
- 15:45 D. Hamilton (USA): The tropical and subtropical South Atlantic Ocean biogeochemistry responses for the IPCC AR6 future scenarios using EcosyGCM - on-site
- 15:55 O. Wurl (Germany): Contrasting aerosol, cloud, precipitation and radiative interactions at low and high Southern Ocean latitudes - on-line
- 16:05 O. Crabeck (Belgium): Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site
- 16:15 O. Wurl (Germany): Contrasting aerosol, cloud, precipitation and radiative interactions at low and high Southern Ocean latitudes - on-line

#### 15:30 Discussion session: Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site

- 15:30 Introduction by session chairs: A. Ito and P. Panda
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### 16:30 - 17:30 Time

#### 16:30 Discussion session: Marine aerosol-cloud interactions and contrail formation in the Southern Ocean - on-site

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### 17:30 Virtual networking event on Gather.Town

### 18:00 Conference banquet

### Conference closing

- 18:00 Conference closing