

**July 24, 2018 Tuesday- Registration and Dinner (7 pm onward)****Day 1: July 25, 2018 Wednesday**

Timing	Topic	Instructor
8:45-9:30 am	Introduction of participants	
9:30-10:30 am	Plate tectonics and geomorphology of land-ocean boundary	Supriyo Mitra
10:30-11am	Tea Break	
11-12 pm	River Delta formation	Supriyo Mitra
12-1:30 pm	Lunch	
2:00- 3:30 pm	Introduction to atmospheric gases and aerosols	Prabir Patra
3:30- 4 pm	Tea Break	
4-4:30 pm	Presentation by sponsors	
4:30-6:30 pm	Hands on session (Fortran/Python)	Prabir Patra
8 pm onward	Dinner	

**Day 2: July 26, 2018 Thursday**

Timing	Topic	Instructor
9:00-10:30 am	Nitrogen in oceans	Wajih Naqvi
10:30-11am	Tea Break	
11-12 pm	Ocean deoxygenation	Wajih Naqvi
12-1 pm	Lunch	
1-2:30 pm	Stable isotopes	Prasanta Sanyal
2:30- 3:30 pm	Methane emissions in coastal ocean	Sandip Mukhopadhyay
3:30- 4 pm	Tea break	
4-5 pm	Coastal sediment biogeochemistry	Sandip Mukhopadhyay
5-6 pm	Indian GHG	Yogesh Tiwari
8 pm onward	Dinner	

**Day 3: July 27, 2018 Friday**

Timing	Topic	Instructor
9:00-10:30 am	Halogen species and air-sea exchange	Susann Tegtmeier
10:30-11am	Tea Break	
11-12 pm	Sulphur and Clouds	Susann Tegtmeier
12-2 pm	Lunch	
2-3 pm	Carbon in oceans	VVSS Sarma
3- 3:30 pm	Tea Break	
3:30- 4:30 pm	Primary productivity in coastal ocean	VVSS Sarma

5 pm- 7 pm	Hands on session (GHG)	Yogesh Tiwari and Prabir Patra
9 pm	Dinner	

#### Day 4: July 28, 2018 Saturday

Timing	Topic	Instructor
8:30-10:30 am	Hands on session (Ocean/atmosphere exchange)	Susann Tegtmeier and Prabir Patra
10:30-11 am	Tea Break	
11-12 pm	GHG emission from inland and coastal water bodies	Kazuyuki Inubushi
12-1 pm	Lunch	
1-2 pm	Atmospheric halocarbon	Sayantana Sarkar
2-3 pm	Static modelling for coastal ocean	Santanu Ray
3- 3:30 pm	Tea Break	
3:30-4:30 pm	Dynamic modelling for coastal ocean	Santanu Ray
5- 7 pm	Hands on session (Static/dynamic modelling)	Santanu Ray
8 pm	Dinner	

#### Day 5: July 29, 2018 Sunday

Timing	Topic	Instructor
9-10 am	Global carbon budget	Prabir Patra
10-11	Presentation by workshop participants	
11-11:30 am	Tea Break	
11:30 am-1 pm	Presentation by workshop participants	
1-2 pm	Lunch	
2-3 pm	Nutrient cycling in land ocean boundary- biological perspective	Punyasloke Bhadury
3-3:30 pm	Tea Break	
4-4:30 pm	Presentation by sponsors	
4:30-6:30 pm	Presentation by workshop participants	
8 pm	Dinner	

#### Day 6: July 30, 2018 Monday

Timing	Topic	Instructor
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9:00-10:30 am	Open ocean carbon fluxes	Vinu Valsala
10:30-11am	Tea Break	
11-1 pm	Hands on session (ocean modelling)	Vinu Valsala
1-2 pm	Lunch	
2-3 pm	Hands on session (ocean modelling)	Vinu Valsala
3:00-3:15 pm	Tea Break	
3:15- 4: 15 pm	Regional carbon budget	Prabir Patra
4:15-4:30 pm	Tea Break	
4:30-7 pm	Hands on session: Coastal processes	KGMT Ansari and Anwesha Ghosh
8 pm	Dinner	

**Day 7: July 31, 2018 Tuesday**

Timing	Topic	Instructor
9:00-10:30 am	Global atmosphere	Paul Palmer
10:30-11am	Tea Break	
11-12 pm	Atmospheric modelling of GHGs	Paul Palmer
12-1 pm	Lunch	
1-230 pm	Tower based observations of greenhouse gases at natural ecosystems	Supriyo Chakraborty
230-3 pm	Tea Break	
3-4 pm	Isotopic investigations of greenhouse gases	Supriyo Chakraborty
4-5 pm	Nutrient in surface ocean: upwelling vs. atmospheric deposition	Prabir Patra
5-7 pm	Hands on session (Modelling atmospheric GHGs)	Paul Palmer
8 pm	Dinner	

**Day 8: August 1, 2018 Wednesday**

Timing	Topic	Instructor
9-11 pm	Hands on session (Modelling atmospheric GHGs)	Paul Palmer
11-1130 am	Tea Break	
1130-1 pm	Workshop participants presentation	
1-2 pm	Lunch	
3-6 pm	Hands on session and query solving	Prabir Patra and Paul Palmer
8 pm	Dinner	

**Day 9: August 2, 2018 Thursday**

Timing	Topic	Instructor
9:00-1130 am	Hands on session and queries solving	
1130-12 noon	Tea Break	
12-1 pm	Panel discussion	Moderated by Punyasloke Bhadury
1-2 pm	Lunch	
2-5 pm	Discussion related to Hands on sessions	
8 pm	Dinner	

**Day 10 and 11: August 3 and 4, 2018 Friday and Saturday-** Field visit to Sundarbans

**Day 12: August 5, 2018 Sunday** (Departure)