

PROGRAMME

OCEAN-COLOUR DATA

NERC Advanced Training Course, 18-22 September 2017



LOCATION: Plymouth Marine Laboratory (PML, www.pml.ac.uk) with coffee and lunch provided for all participants.

Monday

- 9.00 - 9.30 Registration at the PML Marine Matters Centre
9.30 - 9.45 Welcome & introduction - **Marie-Fanny Racault**
9.45 - 10.45 Student introductions
10.45 - 11.05 Break
11.05 - 12.05 **Lecture:** Fundamentals of ocean-colour – **Trevor Platt**
12.05 - 13.05 **Lecture:** Introduction to ocean-colour and climate – **Shubha Sathyendranath**
13.05 - 14.15 Lunch
14.15 - 15.30 **Lecture:** Ecosystem health indicators – **Marie-Fanny Racault**
15.30 - 16.00 Break
16.00 - 17.00 **Lecture:** Application to fisheries – **Trevor Platt**
17.30 Icebreaker reception

Tuesday

- 9.00 - 10.30 **Lecture:** Theory of Primary Production – *Trevor Platt & Shubha Sathyendranath*
- 10.30 - 11.00 **Break**
- 11.00 - 12.30 **Practical:** Visualisation: monitoring phytoplankton seasonality – *Marie-Fanny Racault*
- 12.30 - 13.45 **Lunch**
- 13.45 - 15.30 **Practical:** Analysis of ocean-colour time-series – *Dionysios Raitzos*
- 15.30 - 16.00 **Break**
- 16.00 - 17.00 **Lecture:** Application: the ocean carbon cycle – *Bob Brewin*

Wednesday

- 9.00 - 10.30 **Lecture:** Ocean-colour algorithms theory – *Bob Brewin*
- 10.30 - 11.00 **Break**
- 11.00 - 12.30 **Lecture:** Ocean-colour in data assimilation and model validation – *Stefano Ciavatta*
- 12.30 - 13.45 **Lunch**
- 13.45 - 15.30 **Practical:** Detection of harmful algal blooms in coastal waters – *Hayley Evers-King*
- 15.30 - 16.00 **Break**
- 16.00 - 17.00 **Lecture:** Policy: Group on Earth Observations “Oceans and Society: Blue Planet” Initiative – *Sophie Seeyave*

Thursday

- 9.00 - 11.00 **Tour:** NEODAAS facilities – *Ben Taylor*
- 11.00 - 11.30 **Break**
- 11.30 - 12.30 **Lecture:** Processing chain, data format, data archive – *Thomas Jackson*
- 12.30 - 13.45 **Lunch**
- 13.45 - 15.30 **Practical:** Programming tools: handling ocean-colour datasets – *Thomas Jackson*
- 15.30 - 16.00 **Break**
- 16.00 - 17.00 **Lecture:** Application: climate impact and risk assessment – *Marie-Fanny Racault*
- 19.00 **Training course dinner Restaurant TBC, Plymouth.**

Friday

9.00 - 11.00	Practical: El Niño climate impact on ocean biology and physics – <i>Marie-Fanny Racault</i>
11.00 - 11.30	Break
11.30 - 12.30	Lecture: Application: the ocean heat budget – <i>Shubha Sathyendranath</i>
12.30 - 13.45	Lunch
13.30 - 14.30	Lecture: Summary of ocean-colour data applications and analysis methods – <i>Marie-Fanny Racault</i>
14.30 - 15.00	Evaluation and feedback questionnaire
15.00 - 15.30	Closing remarks
15.30	Close of course