

EO Summer School 2014

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu
	04-Aug	05-Aug	06-Aug	07-Aug	08-Aug	09-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug
08:30-09:30	Reg + Welcome Intro*	CD2	A03	SS3	SH2	Free	Free	AB3	PB1	IK1	AI3
09:30-10:30	A01	SS1	MB3	AB1	RK2			SH3	DL3	PB2	IK2
10:30-11:00	Coffee at Villa Tuscolana				Coffee at Villa Tuscolana						
11:00-12:00	CD1	MB2	SS2	RK1	DL1			RK3	JR1	AI2	PB3
12:00-13:00	MB1	A02	CD3	SH1	AB2			DL2	AI1	JR2	JR3
13:00-14:30	Shuttle to ESRIN + Lunch at ESRIN					Shuttle to ESRIN + Lunch at ESRIN					
14:30-15:30	DA1	DA2	DA3	DA4	RS1			RS2	E01	E02	Diploma
15:30-16:30	DA1	DA2	DA3	DA4	RS1			RS2	E01	E02	
16:30-17:30	DA1	DA2	DA3	DA4	RS1			RS2	E01	E02	
17:30-18:00	Poster 1	Poster 2	Poster 3	Poster 4	Poster 5			Poster 6	Poster 7	Poster 8	

* Mon 4 Aug: registration@8:00 at Villa Tuscolana | Welcome by Prof Volker Liebig@9:00 | Intro SEOM (Yves-Louis Desnos)

Lectures@ Villa Tuscolana

Shubha Sathyendranath (SS)

SS1	Ocean colour: an introduction
SS2	Ocean colour as an essential climate variable
SS3	Remote sensing of marine primary production

Michael Buchwitz (MB)

MB1	Greenhouse gas observations from space: Why and how?
MB2	Greenhouse gas observations from space: Results from ESA's GHG-CCI project
MB3	Greenhouse gas observations from space: Proposed future mission CarbonSat

Pierre Briole (PB)

PB1	Remote sensing of volcanoes
PB2	Basics of the modelling of the ground deformations produced by an earthquake
PB3	Precise kinematic GPS : method and applications

Annett Bartsch (AB)

AB1	Active microwave remote sensing of land surface hydrology
AB2	Time series analyses in active microwave remote sensing
AB3	Remote sensing applications for permafrost studies

Ana Iglesias (AI)

AI1	Looking into the future of food production in a changing climate
AI2	Drought Early Warning Systems in Africa
AI3	Adaptation of water resources to climate change: Learning studies

Ronald Kwok (RK)

RK1	Remote sensing of sea ice
RK2	Ice kinematics
RK3	Ice thickness from satellites

Alan O'Neill (AO)

A01	Data Assimilation for Earth System Science: introductory ideas and basic principles.
A02	Practical algorithms in data assimilation
A03	Data assimilation in practice: synthesising EO data for science and operational needs.

Sean Healy (SH)

SH1	Satellite Data for Numerical Weather Prediction 1
SH2	Satellite Data for Numerical Weather Prediction 2
SH3	Using an Ensemble Data Assimilations technique to estimate the impact of new observations

David Lary (DL)

DL1	Aerial Vehicles, Machine Learning and Remote Sensing
DL2	Machine Learning for Scientific Applications
DL3	Machine Learning for Societal Applications

Claude Duguay (CD)

CD1	Lake ice cover and surface water temperature I: Role and response in lake-climate interactions
CD2	Lake ice cover and surface water temperature II: Satellite remote sensing
CD3	Lake ice cover and surface water temperature III: Numerical modelling

John Remedios (JR)

JR1	Observing climate I: surface temperatures
JR2	Observing climate II: atmosphere gas profiles
JR3	Observing climate III: integrated systems

Tarla Kilbane-Dawe (IK)

IK1	Understanding the fundamental principle of innovation
IK2	Putting innovation into practice

Hand-ons Practicals@ESRIN Big Hall in B14

Data Assimilation (DA) Practicals

DA1	Effect of statistical analysis parameters	Melanie Ades
DA2	4D-Var and incremental 4D-Var	Phil Browne
DA3	Ensemble and extended Kalman filters	Polly Smith
DA4	Student Projects	Javier Amezcua

Remote Sensing (RS) and Earth Observation (EO) Practicals

RS1	ESA Toolbox	Chris Stewart
RS2	ESA Toolbox	Fabrizio Ramoino
E01	Learn EO	Val Byfield
E02	Learn EO	David Poulter