





21 July 2014

12:00 - 14:00

14:00 - 16:00

16:00 - 16:30

--- Lunch ---

E. Gilleland Statistical Theory

--- Coffee break ---















WCRP-ICTP Summer School on Attribution and Prediction of Extreme Events

Cosponsor(s): WCRP, ICSU, IUGG, ACE CSS, US CLIVAR, NOAA, DoE, APN Organizer(s): S. Seneviratne, F. Zwiers. ICTP Local Organizer: A. Tompkins, A. Pirani Trieste - Italy, 21 July 2014 - 1 August 2014

Final programme

08:15 - 09:00 (Room: Adriatico Guest House (Lower Level 1)) Registration 09:00 - 09:45 D. Karoly What is an extreme event? 09:45 - 10:30 S. Seneviratne How do extremes changes in the context of climate change? 10:30 - 11:00 (Room: Adriatico Guest House (Terrace)) --- Coffee break --11:00 - 12:00 --- Registration & Administrative formalities ---

(Room: Adriatico Guest House (Terrace))

Monday, 21 July (Room: Adriatico Guest House Giambiagi Lecture Hall)

16:30 - 17:30	(Room: Adriatico Guest House - Eklund Informatics Lab (Lower Level 1)) Presentation of potential projects and first group discussions
19:00 - 21:00	(Room: Adriatico Guest House (Terrace)) Welcome reception

Tuesday, 22 July	(Room:Adriatico Guest House Giambiagi Lecture Hall)
22 July 2014	
09:00 - 09:45	P. Naveau Extreme Value Theory (multi-variate)
09:45 - 10:30	P. Naveau Extreme Value Theory (non-startionarity)
10:30 - 11:00	(Room: Adriatico Guest House (Terrace)) Coffee break
11:00 - 12:30	E. Gilleland Introduction to R & NCAR extreme package
12:30 - 14:00	Lunch
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) E. Gilleland Introductory exercises with NCAR extreme package
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
19:30 - 20:30	Dinner
20:30 - 22:30	P. Naveau Statistical Theory ? Advanced talk

Wednesday, 23 July (Room:Adriatico Guest House Giambiagi Lecture Hall)

Wednesday, 23 Ju	Ily (Room: Adriatico Guest House Giambiagi Lecture Hall)
23 July 2014	
09:00 - 09:45	F. Zwiers Detection and Attribution (General introduction)
09:45 - 10:30	F. Zwiers Detection and Attribution (Optimized & Non-optimized methods)
10:30 - 11:00	(Room: Adriatico Guest House (Terrace)) Coffee break
11:00 - 12:30	(Room: Adriatico Guest House Informatics Lab.) F. Zwiers/Q. Wan Practical exercise with R: Optimal fingerprinting

12:30 - 14:00	Lunch
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) Group projects

Thursday, 24 July (Room: Adriatico Guest House Giambiagi Lecture Hall)

24 July 2014	/
09:00 - 10:00	D. Karoly Physical mechanisms (Large-scale circulation)
10:00 - 10:30	(Room: Adriatico Guest House (Terrace)) Coffee break
10:30 - 12:30	L. Alexander Climate extremes: Data issues
12:30 - 14:00	Lunch
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.)

19:00 - 21:00 --- Dinner Outing ---

The bus will depart from outside the Adriatico Guesthouse at 7 p.m. Dinner will be held at the restaurant "Lupinc" on the Karst.

Friday, 25 July (Room: Adriatico Guest House Giambiagi Lecture Hall)

Group projects

25 July 2014	
09:00 - 10:30	A. Kumar Prediction - seasonal prediction systems
10:30 - 10:50	(Room: Adriatico Guest House (Terrace)) Coffee break
10:50 - 11:45	F. Doblas-Reyes Prediction - Predictability and extremes
11:45 - 12:30	A. Kumar Prediction - seasonal prediction systems

16:00 - 17:30	Project progress reports (15 min each)
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
12:30 - 14:00	Lunch

Monday, 28 July (Room: Adriatico Guest House Giambiagi Lecture Hall)

28 July 2014	
09:00 - 09:45	F. Zwiers Detection and attribution (Extreme values)
09:45 - 11:00	F. Zwiers Detection and attribution (Extreme values)
11:00 - 11:30	(Room: Adriatico Guest House (Terrace)) Coffee break
11:30 - 13:00	(Room: Adriatico Guest House Informatics Lab.) F. Zwiers/Q. Wan Practical exercise with R: D&A Extreme values
13:00 - 14:00	Lunch
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) Group projects

Tuesday, 29 July (Room:Adriatico Guest House Giambiagi Lecture Hall)

29 July 2014	
09:00 - 09:45	S. Seneviratne Physical mechanisms (Land-climate feedbacks)
09:45 - 10:30	S. Seneviratne Physical mechanisms (Local vs large-scale drivers)
10:30 - 11:00	(Room: Adriatico Guest House (Terrace)) Coffee break
11:00 - 12:30	R. Orth / S. Seneviratne Practical exercise -land-climate inter-actions and soil moisture memory
12:30 - 14:00	Lunch

14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) Group projects

Wednesday, 30 July (Room:Adriatico Guest House Giambiagi Lecture Hall)

wednesday, 50 J	my (Room: Adriatico Guest House Giambiagi Lecture Haii)
30 July 2014	
09:00 - 09:45	P. Stott Event attribution: Theory
09:45 - 10:30	P. Stott Event attribution: Theory
10:30 - 11:00	(Room: Adriatico Guest House (Terrace)) Coffee break
11:00 - 12:30	(Room: Adriatico Guest House Informatics Lab.) F. Otto Practical exercise with climate prediction.net data
12:30 - 14:00	Lunch
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
18:00 - 19:30	F. Giorgi Response of hydroclimatic regimes to global warming

Thursday, 31 July (Room: Adriatico Guest House Giambiagi Lecture Hall)

	(Tree in the rest of the rest
31 July 2014	
09:00 - 09:45	F. Otto Event attribution: Theory
09:45 - 10:30	F. Otto Event attribution: Theory
10:30 - 11:00	(Room: Adriatico Guest House (Terrace)) Coffee break

11:00 - 12:30	(Room: Adriatico Guest House Informatics Lab.) F. Otto Practical exercise with climate prediction.net data
12:30 - 14:00	Lunch
14:00 - 15:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
15:30 - 16:00	(Room: Adriatico Guest House (Terrace)) Coffee break
16:00 - 17:30	(Room: Adriatico Guest House Informatics Lab.) Group projects
19:00 - 21:00	(Room: Adriatico Guest House (Terrace)) End of school Dinner

Friday, 1 August (Room: Adriatico Guest House Giambiagi Lecture Hall)

1	A 4	201	4
	August	201	4
-	1145450		

09:00 - 09:45	K. Koshi Disaster Risk Management for Sustainable Development
09:45 - 10:30	Final Project wrap up and ongoing collaboration planning
10:30 - 11:00	(Room: Adriatico Guest House (Terrace)) Coffee break
11:00 - 12:30	Project presentations (30-minutes each)
12:30 - 14:00	Lunch
14:00 - 15:00	Project presentations (30-minutes each)