

The 4th Atmospheric Circulation Reconstructions over the Earth (ACRE) Workshop, in conjunction with EC FP7 EURO4M and ERA-CLIM plus AHRC

Historic Weather

KNMI, De Bilt, The Netherlands, 21st-23rd September 2011























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The 4th ACRE Workshop will bring together the ACRE community and its partners to discuss the results of activities in the three interlinked areas that define the initiative: data, reanalyses, and user needs. It provides a venue for assessing ACRE's progress in the efficient use of the products it is both producing and facilitating with its international partners.

This meeting will be held in conjunction with two new European Commission Seventh Framework Programme (FP7) projects using historical data and reanalyses: European Reanalysis and Observations for Monitoring (EURO4M) and European Re-Analysis of global CLIMate observations (ERA-CLIM) plus the UK Arts and Humanities Research Council (AHRC) *Historic Weather* Network project, the European Environment Agency (EEA) and WMO Data Rescue (DARE). Overall, this will not only help to forge strong linkages among ACRE, ERA-CLIM, EURO4M, *Historic Weather*, the EEA and WMO DARE, but expose these projects/bodies to the wider ACRE community that brings together climate scientists, social scientists, the humanities community, educators and policy makers.

The workshop will also showcase ACRE's ongoing developments in the areas of citizen science, massive-scale data handling and web-based open platform capabilities, state-of-the-art high-resolution visualisations of data, metadata, data images and reanalyses products. The successful development of this technology is crucial to making the full impact of the output and outreach from the international ACRE initiative as user friendly, tailored and shaped as possible.

Previous ACRE Workshops and Meetings:

1st ACRE Workshop: Reanalyses Data, Historical Reanalyses & Climate Applications (MeteoSwiss, Zurich, Switzerland 23- 25 June 2008)

2nd ACRE Workshop:: Shaping an ongoing road map for ACRE (O'Reilly's Rainforest Retreat, Lamington National Park, Queensland, Australia, 1-3 April, 2009)

ACRE Working Group 1: Data and Data Visualisation planning meeting, (Bologna, Italy, 27-29 May 2009)

ACRE Data and Data Visualisation meeting (Met Office, Exeter, UK, 15-17 September 2009)

3rd ACRE Workshop: Reanalysis and Applications

(Linked to the US Workshop on the evaluation of recent reanalyses and steps towards an integrated Earth System Analysis)
(Baltimore Sheraton Inner Harbour, Baltimore, USA, 3-5 November 2010)

Agenda

	Agenda Day 1 – 21st September
8.30	Registration
	DATA – Chairs – Albert Klein Tank, Aryan van Engelen, Gil Compo
9.00	Welcome from the local host (Hein Haak, KNMI Director of Research)
9.10	ACRE & ACRE WG 1 Report: Data Rescue – Rob Allan (ACRE, UK)
9.30	ACRE Chile: Chile and the South-east Pacific Ocean – Clive Wilkinson (RECLAIM/CRU, UEA, UK) & Jorge Guzman (SPRI/ACRE Chile)
9.50	Morning Tea
10.20	ACRE Pacific - Drew Lorrey (NIWA, New Zealand)
10.40	ACRE India & ACRE Africa – Rob Allan (ACRE, UK)
11.00	ACRE SE Asia – Fiona Williamson (UEA, UK)
11.20	ACRE China - Robert Bickers (Historical Studies, University of Bristol, UK)
11.40	Discussion of Morning Sessions Day 1
12.00	Lunch – including EURO4M and ERA-CLIM WG1 side event meeting
13.00	ACRE WG 5 Report: Non-instrumental and Documentary Data – Dennis Wheeler/Catharine Ward (Sunderland University, UK)
13.20	Digitization and analysis of national and overseas historical climate records in the Netherlands – Theo Brandsma (KNMI, Netherlands)
13.40	The Surface Temperature Initiative: Building a Land Surface Temperature Program for the 21st Century – Kate Willett, (Met Office Hadley Centre, Exeter, UK)
14.00	Citizen Science: Old Weather - Philip Brohan (ACRE & Met Office Hadley Centre, UK)
14.30	The International Environmental Data Rescue Organisation (IEDRO) - Tom Ross (IEDRO, US)
14.50	International Surface Pressure Databank (ISPD) - Russ Vose (NOAA NCDC, US)
15.10	Afternoon Tea
15.30	Rescue of Historical US Marine Data in Support of Marine Ecology – Catherine Marzin (NOAA Marine Sanctuaries, US)
15.50	International Comprehensive Ocean-Atmosphere Data Set (ICOADS) – Scott Woodruff (NOAA ESRL, US)
16.10	German initiative: Rescue of world-wide historical climate data - Birger Tinz (DWD, Germany)
16.30	AAA project : French historical climate and weather observations rescue co-funded by BNP Paribas Foundation – Sylvie Jourdain (Météo-France)
16.50	EURO4M & ERA-CLIM WG1 side meetings and report to ACRE – Phil Jones (CRU, UEA, UK) & Stefan Bronnimann (University of Bern, Switzerland)
17.10	Data Support for Climate Research from NCAR - Steve Worley (NCAR/UCAR, US)
17.30	IEDRO data rescue funding experiences - Penny Paugh (IEDRO, US)
17.50	Discussion of Afternoon Sessions Day 1
19.00	Workshop dinner in Utrecht

	Day 2 – 22 nd September	
	REANALYSES - Chairs - Philip Brohan, Russ Vose, Ben Giese	
8.40	ACRE WG 3 Report: Verification and Validation - Gil Compo (NOAA ESRL/CIRES, CI	DC, US)
9.00	ACRE-facilitated 20CR and the Sparse Input Reanalysis for Climate Applications (S Gil Compo (NOAA ESRL/CIRES, CDC, US)	IRCA) -
9.20	Developing Ocean-Atmosphere Reanalyses for Climate Applications (OARCA) – Ber (TAMU, US) and Gil Compo (NOAA ESRL/CIRES, CDC, US)	n Giese
9.40	ERA-CLIM – Dick Dee (ECMWF, UK)	_
10.00	Morning Tea	
10.30	Reanalysis of surface observations in ERA-CLIM - Hans Hersbach (ECMWF, UK)	
10.50	Data quality feedback information from reanalysis - Paul Poli (ECMWF, UK)	
11.10	EURO4M - Dale Barker (Met Office, UK)	
	DOWNSCALING	
11.30	ACRE WG 2 Report: Downscaling – David Hein (Met Office, UK)	
11.50	PRECIS 1894 Thames Flooding Study – David Hein (Met Office, UK)	
12.10	Paleoclimate Tracers – Kei Yoshimura (AORI, University of Tokyo, Japan)	Sype
	USERS AND LINKAGES	
12.30	ACRE WG 4 Report: User Requirements and Applications – Roger Stone (USQ, Aust	tralia)
12.50	Lunch including <i>Historic Weather</i> side event meeting	
14.10	Delivery: Web tools - Gil Compo (NOAA ESRL/CIRES, US)	
14.30	MO-TSB-IBM Open Platform & ACRE – David Hein (Met Office, UK)	
	Output:	
14.50	20CR Storminess – Gregor Leckebusch (University of Birmingham, UK)	
15.10	Afternoon Tea	
15.30	Hail propensity in Queensland – Roger Stone (USQ, Australia)	
15.50	Extremes – Xiaolan Wang (Environment Canada)	Sype
16.10	Floods and Droughts – Ben Cook (LDEO/NASA GISS, US)	
16.30	Extra-tropical storminess in the 20th Century- Russ Vose (NOAA NCDC, US)	
16.50	Stochastic Processes - Prashant Sardeshmukh (NOAA ESRL/CIRES, CDC, US)	
17.10	ENSO, SPCZ and TCs - Drew Lorrey (NIWA, New Zealand)	ENTE
	Outreach:	
17.30	International Centre for Earth Simulation (ICES) – Bob Bishop (ICES Foundation, Switzerland	
17.50	The HMS Plover Project - Kevin Wood (NOAA/PMEL, US)	Sype
18.10	Discussion of Day 2	

	Day 3 – 23 rd September
	USERS AND LINKAGES – Chairs - Roger Stone, Lorna Hughes, Scott Woodruff
	Outreach (continued):
9.00	EURO4M Climate Information Bulletins - Ge Verver (KNMI, Netherlands)
9.20	UK National Maritime Museum (NMM) – Fiona Romero (NMM, UK)
	Linkages:
9.40	The SEARCH Project - David Karoly (University of Melbourne, Australia)
10.00	Morning Tea
10.20	Collaborating with the research powerhouse of the Southern Hemisphere: Australia – Rado Faletic (FEAST, Australia)
10.40	Climate data used for EEA assessments - Blaz Kurnik (EEA)
11.00	A global dataset of the self-calibrating Palmer Drought Severity Index - Gerard van der Schrier (KNMI, Netherlands), Phil Jones (CRU, UEA, UK) and Keith Briffa (CRU, UEA, UK)
11.20	The ARCdoc project - Dennis Wheeler (Sunderland University, UK)
11.40	The International Best Track Archive for Climate Stewardship (IBTrACS) – Russ Vose (NOAA NCDC, US)
12.00	The Development of an Enhanced Tropical Cyclone Tracks Database for the Southwest Pacific from 1840-2009 – Howard Diamond (US GCOS Office & WDCM, US)
12.20	CCI/CLIVAR/JCOMM Expert Team on Climate Change Detection and Indices (ETCCDI) – Albert Klein Tank (KNMI, Netherlands)
12.40	ARC Opportunities: Climate and Weather Risk Management – Roger Stone (USQ, Australia)
13.00	Lunch including Historic Weather side event meeting
14.40	The SPHERE project - Clive Wilkinson (RECLAIM/CRU, UEA, UK)
15.00	Met Office Hazard Centre – Paul Davies (Met Office, UK)
15.20	Centre for World Environmental History (CWEH) – Vinita Damodaran (CWEH, Sussex University, UK)
15.40	Sistemic Weather e-Research approaches to historic weather data: sources, collaborations and methodologies for researching environmental change, side event meeting report to ACRE - Lorna Hughes (University of Wales Chair in Digital Collections, National Library of Wales, UK)
16.00	DISCUSSION – Rob Allan, Gil Compo, Albert Klein Tank

VENUE:

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