

Table 1: Timetable overview.

Tuesday, 6 May		Time
Workshop Introduction		9:30-10:00
Session 1	Characteristics of Observational Data (w/ 30 min coffee/tea)	10:00-12:35
Lunch	85 min	12:35-14:00
Session 2	Data Management (w/ 30 min coffee/tea)	14:00-17:35
Poster Introductions	To be presented by designated Chair	17:35-17:50
Poster Viewing	All Sessions (manned)	17:50-18:50
Icebreaker Reception	In exhibition room on ground floor of conference building, hosted by the City Hall of Gdynia	19:00
Wednesday, 7 May		
Session 3	Product Development (w/ 30 min coffee/tea)	9:30-12:00
Lunch	90 min	12:00-13:30
Session 4	New Climate Products and Intercomparisons (w/ 30 min coffee/tea)	13:30-16:05
Plenary Discussion A	Marine Data & Data Quality (90 min)	16:05-17:35
Conference Dinner	Restaurant Harnaś in Sopot, hosted by the General Director of the Institute of Meteorology and Water Mgmt.	19:00
Thursday, 8 May		
Session 5	Observation-based Analyses of Climate Variability and Change (w/ 30 min coffee/tea)	9:30-13:10
Lunch	80 min	13:10-14:30
Plenary Discussion B	Marine Metadata & Data Management (60 min)	14:30-15:30
Poster Viewing	All Sessions (manned) (including 30 min coffee/tea)	15:30-18:00
Friday, 9 May		
Session 6	New Initiatives (w/ 30 min coffee/tea)	9:30-12:10
Lunch	80 min	12:10-13:30
Plenary Discussion C	Marine Indices & Products (90 min)	13:30-15:00
Plenary Discussion D	Workshop Outcomes (30 min)	15:00-15:30
Workshop Closure	30 min coffee/tea	15:30-16:00

Table 2: Daily timetable.

	Tuesday, 6 May		Time
	Workshop Introduction: Speakers	Chair: Mirosław Miętus	9:30-10:00
	<ol style="list-style-type: none"> 1. Dr Mieczysław Ostojki, Gen. Director IMGW 2. Etienne Charpentier, WMO and JCOMM 3. Prof. Jerzy Bieliński Vice Rector, Univ. of Gdańsk 4. Prof Marcin Plinski, Pres. National Committee of Sea Research in Poland 5. Dr Wojciech Szczurek, Mayor of Gdynia 6. Scott Woodruff, Chairman of the Organizing Committee, NOAA 7. Mirosław Miętus, IMGW (local logistics) 		
S1	Session 1: Characteristics of Observational Data	Chair: Nick Rayner	10:00-12:35
No.	Title	Authors (presenting bold)	
S1O1 (invited)	Assessment of the Surface Marine Meteorological Observing System	Elizabeth C. Kent and David I. Berry	10:00-10:25
	Coffee/tea		10:25-10:55
S1O2	A bias corrected SST analysis from 1900 to the present	John J Kennedy , Nick A Rayner and David E Parker	10:55-11:15
S1O3	A Study of Bias and Inhomogeneity in Wind Speeds from Moored Buoys	Bridget R. Thomas and Val Swail	11:15-11:35
S1O4	Using ship tracking methods to assist in bias adjusting marine observations	Julian G T Hill , Simon R Maskell and Mathew Cole	11:35-11:55
S1O5	Observational Accuracy Of Wind Wave Periods And Directional Characteristics From VOS	Vika Grigorieva and Sergey Gulev	11:55-12:15
S1O6	Impact of systematic errors in hydrographic data on estimates of ocean warming	Viktor Gouretski	12:15-12:35
S1P1 (poster)	Uncertainties in SST measurements: are we overestimating the reliability of SST data?	John J Kennedy	<i>(Note: <u>all</u> posters presented later)</i>
S1P2	Humidity Biases in VOS Observations	David I. Berry and Elizabeth C. Kent	
S1P3	Estimating the Random Errors in Marine Air Temperatures	David I. Berry and Elizabeth C. Kent	
S1P4	Improved Characterisation and Bias Adjustment of Ship Winds in ICOADS	David I. Berry and Elizabeth C. Kent	
S1P5	Wave Climatology Over Malaysian Surrounding Waters Based On VOS Data	Nursalleh Chang	
S1P6	Characteristics of the hydro-meteorological observation data in the North-Western Black Sea	Dumitru Sarafu and Mirela-Milena Nita	
S1P7	Wave Spectra Construction in the Caribbean Sea Using Satellite Measurements after Buoy Data Analysis	Rafael Ricardo Torres	

	Lunch		12:35-14:00
S2	Session 2: Data Management	Chair: Alexey Kaplan	14:00-17:35
S2O1	Overview of JCOMM Data Management and Advances in Best Practices	J. Robert Keeley	14:00-14:25
S2O2	ICOADS: Update Status and Data Distribution	Steven J. Worley , Scott D. Woodruff, David I. Berry, J. Eric Freeman, Sandra J. Lubker and Zaihua Ji	14:25-14:45
S2O3	ICOADS: Data Characteristics and Future Directions	Scott D. Woodruff , Elizabeth C. Kent, Philip Brohan, Richard W. Reynolds, Sandra J. Lubker, Shawn R. Smith and Zaihua Ji	14:45-15:05
S2O4	The present and future satellite era sea surface temperature climate data record	Craig James Donlon , Kenneth Casey and John Stark	15:05-15:25
S2O5	Interface between marine historical ecology and climate research	Catherine G. Marzin and Stefan H. Claesson	15:25-15:45
	Coffee/tea		15:45-16:15
S2O6	SEPRISE - First step towards a pan-European oceanographic real time data exchange	Patrick G. Gorrynge	16:15-16:35
S2O7	The use of Data Buoy, Ship and Argo Float Observations - data flows and processing	Hester Viola	16:35-16:55
S2O8	The JCOMM water temperature metadata pilot project (META-T PP)	Elanor Gowland and Bill Burnett	16:55-17:15
S2O9	Modernisation of the Marine Climatological Summaries Scheme	Nicky Scott	17:15-17:35
S2P1	NOAA's Climate Database Modernization Program: Preserving Marine History	J. Eric Freeman	
S2P2	RECOVERY of Logbooks and International Marine data: (RECLAIM) Project	Clive Wilkinson , Scott D. Woodruff, J. Eric Freeman, Philip Brohan, Dennis Wheeler and Frits B. Koek	
S2P3	HISTOR: Digitisation of German Historical Marine Meteorological Data and Metadata	Reinhard Zöllner	
S2P4	The CLIWOC Project: overview and reflection on the utility of old ship's logbooks for climatic studies	Dennis Wheeler	
S2P5	The Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative	Shawn R Smith , Mark A. Bourassa and Jeremy Rolph	
S2P6	Climate information system and sea state through Capacity Building for Sustainable Development in Guinea-Bissau	Cherno Luis Mendes	
	Poster Introductions	To be presented by designated Chair	17:35-17:50
	Poster Viewing (all Sessions)	All poster presenters	17:50-18:50

	Icebreaker Reception	In exhibition room on ground floor of conference building, hosted by the City Hall of Gdynia	19:00
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	Wednesday, 7 May		
S3	Session 3: Product Development	Chair: Ken Casey	9:30-12:00
S3O1	Microwave sea surface temperatures and climatologies	Chelle L. Gentemann	9:30-9:50
S3O2	Diurnal variability in the upper ocean	Chelle L. Gentemann and Peter J. Minnett	9:50-10:10
S3O3	Use of satellite records and power spectra to model an observational error of bin-averaged in situ climate data	Alexey Kaplan	10:10-10:30
	Coffee/tea		10:30-11:00
S3O4	Estimating Uncertainty of Historical SST Analyses by a Cross Validation Technique	Yoshikazu Fukuda , Masayoshi Ishii and Shoji Hirahara	11:00-11:20
S3O5	Fast data fusion and its role in developing climate quality sea surface temperature data sets from multiple data sources	Julian G T Hill , Martin N Jukes and P W Fieguth	11:20-11:40
S3O6	The Influences of Differing Temperature and Moisture Roughness Length Parameterizations on Height Adjustment and Turbulent Surface Fluxes	Mark Bourassa , Lisa Bucci, Carol Anne Clayson, Charlene Fogue, Matt Onderlinde and Brent Roberts	11:40-12:00
S3P1	Testing the robustness of the proposed HadISST analysis using pseudo-world methods	Nick A Rayner , Jen Hardwick, John J Kennedy and Simon F B Tett	
S3P2	The extreme storm in the south-western Baltic Sea in November 1872 – a reanalysis of the wind fields for coastal protection purposes	Gudrun Rosenhagen	
S3P3	Estimates of ocean heat uptake and their uncertainty	Matthew D. Palmer and Keith Haines	
S3P4	Optimal Estimation for Retrieving Sea Surface Temperature	Christopher J Merchant (presented by Elizabeth C. Kent)	
	Lunch		12:00-13:30
S4	Session 4: New Climate Products and Intercomparisons <i>(Note: S4O1 withdrawn)</i>	Chair: Klaus Wolter	13:30-16:05
S4O2	Uncertainties in SST and Sea Ice Analyses	Nick A Rayner	13:30-13:55
S4O3	Advances in the AVHRR Pathfinder Sea Surface Temperature Climate Data Record and its Connections with GHRSSST Reanalysis Activities	Kenneth S. Casey , Craig J. Donlon and Nick A Rayner	13:55-14:15
S4O4	Inter-comparison of Historical Sea Surface Temperature Datasets	Sayaka Yasunaka and Kimio Hanawa	14:15-14:35

S4O5	A project to create bias-corrected marine climate observations from ICOADS	Shawn R. Smith , Mark A. Bourassa, Scott D. Woodruff, Steven J. Worley, Elizabeth C. Kent and Nick A Rayner	14:35-14:55
	Coffee/tea		14:55-15:25
S4O6	Reconstruction of interdecadal variability of air-sea interaction in the Atlantic 1880-2004: links to atmospheric circulation patterns	Sergey Gulev	15:25-15:45
S4O7	Marine Climatologies from Satellite Remote Sensing, as viewed through a Geographic Information System	Martin J. Rutherford	15:45-16:05
S4P1	A New NOCS Dataset of Sea Surface Heat Fluxes	David I. Berry and Elizabeth C. Kent	
S4P2	The GCOS SST/SI Intercomparison Framework for Global SST Analyses	Tess B. Brandon and Kenneth S. Casey	
S4P3	Towards an independent time series of sea surface temperature from satellite observations	Christopher J Merchant, Owen Embury, David Llewellyn-Jones, Elizabeth C. Kent , Nick A Rayner and Roger Saunders	
Plenary Disc. A	Marine Data & Data Quality (90 min)	Chair: Shawn Smith (Rapporteur: Bridget Thomas)	16:05-17:35
	Conference Dinner	Restaurant Harnaś in Sopot, hosted by the General Director of the Institute of Meteorology and Water Management	19:00

	Thursday, 8 May		
S5	Session 5: Observation-based Analyses of Climate Variability and Change	Chair: Sergey Gulev	9:30-13:10
S5O1	The use of marine data in detection and attribution and other climate modeling activities	Peter A. Stott	9:30-9:55
S5O2	Recalculation of global ocean heat content in light of recently revealed instrumentation problems	Syd Levitus, John Antonov and Tim Boyer	9:55-10:15
S5O3	Near Surface Ocean Temperature: Trends and Interdecadal Variability	Mark Carson , and D. E. Harrison,	10:15-10:35
S5O4	Isolating the signal of ocean global warming	Matthew D. Palmer , Keith Haines, Simon F.B. Tett and Tara J. Ansell	10:35-10:55
	Coffee/tea		10:55-11:25
S5O5	Monitoring El Niño/Southern Oscillation Behaviour with an Improved Multivariate ENSO Index (MEI)	Klaus Wolter and Michael S. Timlin	11:25-11:45
S5O6	Historical chronologies of El Niño Events and Instrumental ENSO indices	Alexey Kaplan	11:45-12:05
S5O7	Changes Of The Thermohaline Circulation Of The Nordic Seas And Climate	Waldemar Walczowski and Jan Piechura	12:05-12:25

S5O8	Using Ships' Logbooks to Understand the Little Ice Age (1685 to 1750): developing a new source of climatic data	Dennis Wheeler	12:25-12:45
S5O9	The Characterisation of Marine Climate Using Indices	Val R. Swail , Scott D. Woodruff, David E. Parker, Chris K. Folland and Elizabeth C. Kent	12:45-13:10
S5P1	Accuracy and Variability of the Turbulent Surface Fluxes over the North Atlantic from VOS Observations	David I. Berry and Elizabeth C. Kent	
S5P2	Wind At The Island Hvar On The Middle Adriatic Sea	Milan Hodzic	
S5P3	Observations of new western Mediterranean deep water formation using Argo floats 2004-2006	Robert O Smith , Harry L Bryden and Kate L Stansfield	
S5P4	Long-term Trends of SST in the Seas adjacent to Japan	Takafumi Umeda	
S5P5	The Antarctic Sea Ice spatial variability for the period and its relationship with atmospheric circulation	Sandra Barreira and Rosa Compagnucci	
S5P6	Ice winter severity in the Western Baltic Sea in the Period 1301-1500	Natalija Schmelzer and Gerhard Koslowski	
S5P7	Mean Sea Level (1817-2007) At The Swinoujscie Tide Gauge	Marzenna M. Sztobryn and Waldemar Stepko	
S5P8	Spectral Slopes and Interannual-to-Subannual Variability Ratios	Daniel E. Amrhein and Alexey Kaplan	
S5P9	The wave climate of the Baltic Sea	Ewa Jakusik	
S5P10	Far North Atlantic Climate 1760-1799: Evidence from logbooks of the Hudson's Bay Company	Catharine Ward (presented by Dennis Wheeler)	
	Lunch		13:10-14:30
Plenary Disc. B	Marine Metadata & Data Management (60 min)	Chair: Bob Keeley (Rapporteur: Eric Freeman)	14:30-15:30
	Coffee/tea		15:30-16:00
	Poster viewing (all Sessions)	All poster presenters	15:30-18:00

	Friday, 9 May		
S6	Session 6: New Initiatives	Chair: Craig Donlon	9:30-12:10
S6O1	Marine climate data and research priorities for the IPCC 5th Assessment	David E. Parker	9:30-9:55
S6O2	Storm Surge Climatology: the JCOMM Scientific and Technical Symposium on Storm Surges	Val R. Swail and Boram Lee	9:55-10:15
S6O3	Atmospheric Circulation Reconstructions over the Earth, The 20th Century Reanalysis Project, and longer historical reanalyses	Robert J Allan , Gilbert P Compo, Jeffrey S Whitaker and Prashant D Sardeshmukh,	10:15-10:35

	Coffee/tea		10:35-11:05
S6O4	ENSO forecasts with an intermediate coupled model initialized and verified by historical climate data sets	Dake Chen , Alicia R. Karspeck, Alexey Kaplan, Mark A. Cane and Richard Seager	11:05-11:25
S6O5	Exploration of Antarctic weather: recovering observations from the early 20th century	Philip Brohan and Robert J Allan	11:25-11:45
S6O6	BACC: BALTEX Assessment of Climate Change for the Baltic Sea Basin – Summary and Outlook	Hans von Storch	11:45-12:10
S6P1	Regional Comparison of Surface Turbulent Flux Products	Paul J. Hughes, Shawn R. Smith and Mark A. Bourassa	
S6P2	The CoastDat project at GKSS –assessing ongoing change and projecting possible future changes in marine weather – winds, surges, waves and currents	Hans von Storch, Ralf Weisse, Iris Grabemann and Jörg Winterfeldt	
	Lunch		12:10-13:30
Plenary Disc. C	Marine Indices & Products (90 min)	Chair: Val Swail (Rapporteur: John Kennedy)	13:30-15:00
Plenary Disc. D	Workshop Outcomes (30 min)	Chair: Scott Woodruff (Rapporteur: Elizabeth Kent)	15:00-15:30
	Workshop Closure		15:30
	Coffee/tea		15:30-16:00

Abstracts Errata

(Note: updated Abstracts available from <http://icoads.noaa.gov/climar3/>)

- Merchant poster presentation S3P4 (Biases intrinsic to 'traditional' satellite sea surface temperature estimates, and how to reduce them): New title (Optimal Estimation for Retrieving Sea Surface Temperature) and no abstract text available.
- Merchant et al. poster presentation S4P3 (Towards an independent time series of sea surface temperature from satellite observations): The abstract was updated, including this revised authorship and presenting author: *Christopher J Merchant*, Owen Embury, David Llewellyn-Jones, Elizabeth C. Kent, Nick A Rayner and Roger Saunders.
- Reynolds and Smith invited presentation S4O1 (A Daily Blended Analysis for Sea Surface Temperature – Improvements and Intercomparisons): Withdrawn.
- Rayner oral presentation O4O2 (Uncertainties in SST and Sea Ice Analyses): Changed to invited presentation.