

# **SCIENTIFIC AND TECHNICAL WORKSHOP OF THE JCOMM SHIP OBSERVATIONS TEAM**

Presentations at the first session of the  
Ship Observations Team  
(Goa, India, 26 February 2002)

WMO/TD-No. 1118

2002

**JCOMM Technical Report No. 16**

## NOTE

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## **FOREWORD**

A Scientific and Technical Workshop was held as a part of the first session of the Ship Observations Team (Goa, India, 25 February - 2 March 2002), to provide an opportunity to exchange information related to observations on board ships, communications facilities and technology, and the applications of ship-board observations. The workshop concept and structure were modelled on the very successful workshops which have been conducted for a number of years now as an integral part of the annual sessions of the Data Buoy Cooperation Panel (DBCP).

The workshop took place during the second day (26 February 2002) of the session, when 15 papers were read to more than 50 participants. Extended abstracts/ power point presentations/abstracts of the papers presented are included in this JCOMM Technical Report, which is published only electronically, as agreed by the meeting. In all cases, the papers/presentations have been included as received, without any editorial intervention.

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### PRESENTATIONS

1. Yukihiro Nojiri<sup>1</sup>, Maria Hood<sup>2</sup> and Yves Dandonneau<sup>3</sup>  
<sup>1</sup> National Institute for Environmental Studies, Japan  
<sup>2</sup> Intergovernmental Oceanographic Commission  
<sup>3</sup> Laboratoire d'Océanographie Dynamique et de Climatologie  
*VOS/SOOP Measurements of Carbon and Related Variables*
2. Tom Houston, Geoffrey K. Morrison, Cynthia Moore and Rod G. Zika  
The International SeaKeepers Society  
*An Automated Ocean and Weather Monitoring System for Use on Volunteer Observing Ships*
3. Robert Caplikas<sup>1</sup>, Simon Harrod<sup>1</sup> and Ross Hibbins<sup>2</sup>  
<sup>1</sup> Vaisala Melbourne  
<sup>2</sup> Bureau of Meteorology, Australia  
*Ship Automatic Weather Stations*
4. Errki Jarvinen, Vaisala  
*Development in Vaisala's ASAP equipment*
5. Geoffrey K Morrison<sup>1</sup>, Frank Millero<sup>1</sup>, Flavio Graziottin<sup>2</sup>, Walter Varda<sup>3</sup>, Regis Cook<sup>3</sup>,  
Richard Wood<sup>3</sup> and Rod G. Zika<sup>1</sup>  
<sup>1</sup> International Seakeepers Society  
<sup>2</sup> Idonaut Srl, Italy, <sup>3</sup> General Oceanics, USA  
*Report on the Development of CO2 Monitoring Systems to be Included in an Autonomous Data Gathering System*
6. Ron Fordyce<sup>1</sup> and Tom Vandall<sup>2</sup>  
<sup>1</sup> Environment Canada, <sup>2</sup> AXYS Environmental Systems, Canada  
*Improving the frequency and reliability of global meteorological observations at sea*
7. Tadashi Ando, Japan Meteorological Agency  
*The new OBSJMA*
8. Christian Ortega, Collecte Localisation Satellites  
*Argos System, Applications and Enhancements*
9. Vladimir Maksimov, Inmarsat, Ltd  
*New Maritime Safety and Commercial Service in 2002*
10. Tomowo Watanabe<sup>1</sup>, Michio Sekimoto<sup>2</sup>  
<sup>1</sup> Tohoku National Fisheries Research Institute, Japan, <sup>2</sup> Tsurumi Seiki Co., LTD  
*Results of field tests of the new XCD-2*

11. Edward J. Kearns<sup>1</sup>, Steven Browdy<sup>2</sup>, Rupert Minnett<sup>2</sup>, Christine Caruso-Magee<sup>2</sup>, Geoffrey K. Morrison<sup>2</sup> and Rod G. Zika<sup>2</sup>  
<sup>1</sup> University of Miami, USA, <sup>2</sup> International Seakeepers Society  
*Collection and evaluation of marine observations from the International SeaKeepers Society Autonomous VOS Fleet*
12. Elizabeth C. Kent and Peter K. Taylor , Southampton Oceanography Centre, UK  
*The Accuracy of Voluntary Observing Ships' Marine Meteorological Observations*
13. François Gérard, Météo-France  
*An Observation Strategy over the Atlantic*

## **LIST OF PARTICIPANTS**