

# 4<sup>TH</sup> CLIVAR GSOP IQUOD 2<sup>ND</sup> IODE SG-IQUOD 1<sup>ST</sup> SCOR WG 148

3<sup>rd</sup>-5<sup>th</sup> October 2016 (2.5 days)

<http://tokyo2016.xbt-japan.org/>

## Venue:

### JAMSTEC Tokyo Office

Fukoku Seimei Bldg. 25F, 2-2-2 Uchisaiwaicho, Chiyoda City, Tokyo 100-0011, Japan

- [Location map incl. the nearest station from Airport](#)
- [Another map incl. nearby subway stations](#)

Exterior of a Fukoku Seimei Bldg. (from [HIBIYA CITY Web](#) (in Japanese))

ROOMS: A + B



email/phone contact:

Email: [tokyo2016@mirc.jha.jp](mailto:tokyo2016@mirc.jha.jp)

Toru: +44 741 843 6989

Catia: +61 402 10 56 59 (whatsapp/when free wifi available)

## Organizers/Steering Team

### **Organizing Committee**

- Catia Domingues (University of Tasmania, Australia / co-chair of IQuOD Steering Team)
- Gustavo J. Goni (AOML/NOAA, USA)
- Masayoshi Ishii (MRI/JMA, Japan / chair of XBT-Japan)
- Shoichi Kizu (Tohoku University, Japan)
- Matthew Palmer (Met Office, UK / co-chair of IQuOD Steering Team)
- Kanako Sato (JAMSTEC, Japan)
- Janet Sprintall (SIO/UCSD, USA)
- Toru Suzuki (MIRC, Japan)

### **IQuOD Steering Team/SG-IQuOD\***

- Tim Boyer (NCEI/NOAA, USA)
- Rebecca Cowley (CSIRO, Australia)
- Catia Domingues (University of Tasmania, Australia / co-chair)
- Gustavo J. Goni (AOML/NOAA, USA)
- Simon Good (Met Office, UK)
- Viktor Gouretski (Universitat Hamburg, Germany)
- Matthew Palmer (Met Office, UK / co-chair)
- Janet Sprintall (SIO/UCSD, USA)
- Charles Sun (NCEI/NOAA, USA / chair of IODE SG-GTSP)
- Toru Suzuki (MIRC, Japan)
- Ann Gronell Thresher (CSIRO, Australia)
- Susan Wijffels (CSIRO, Australia)

### **XBT Workshop Organizers**

- Gustavo J. Goni (AOML/NOAA, USA / co-chair of XBT Science Team)
- Shoichi Kizu (Tohoku University, Japan)
- Janet Sprintall (SIO/UCSD, USA / co-chair of XBT Science Team)

### **Local Organizers/XBT-Japan\*\***

- Ken-ichi Amaike (T.S.K, Japan)
- Masayoshi Ishii (MRI/JMA, Japan / chair of XBT-Japan)
- Yasuhiko Karigome (JODC, Japan)
- Shoichi Kizu (Tohoku University, Japan)
- Tsurane Kuragano (MRI/JMA, Japan)
- Toshiya Nakano (JMA, Japan)
- Yutaka Michida (AORI/The University of Tokyo, Japan / co-chair of IOC-IODE)
- Kanako Sato (JAMSTEC, Japan)
- Yugo Shimizu (NRIFS/FRA, Japan)
- Toshio Suga (Tohoku University, Japan)
- Toru Suzuki (MIRC, Japan / contact person for logistic information)
- Tamaki Yasuda (JMA, Japan)
- Hiroyuki Yoritaka (Kochi University, Japan)

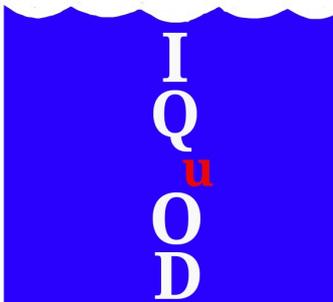
\* IODE-IQuOD project was established by IODE-XXIII (2015) through [Recommendation IODE-XXIII.3](#) and the project is managed by the [IODS Steering Group for the IODE-IQuOD project \(SG-IQuOD\)](#).

\*\* XBT-Japan means the Working Group for Recompilation of Historical XBT Database, Japan Group of Experts to Advance IOC Programs.

# YOUKOSO!

We greatly thank financial support from the [Environment Research and Technology Development Fund \[ 2-1506 \]](#) of the [Ministry of Environment, Japan](#) and the International Council for Science, Scientific Committee on Oceanic Research (SCOR) via Working Group 148 ([http://www.scor-int.org/SCOR\\_WGs\\_WG148.htm](http://www.scor-int.org/SCOR_WGs_WG148.htm)).

IODE-IQuOD project was established by IODE-XXIII (2015) through [Recommendation IODE-XXIII.3](#) and the project is managed by the [IODE Steering Group for the IODE-IQuOD project \(SG-IQuOD\)](#).



## Workshop objectives

- Update on recent IQuOD activities, particularly SCOR WG 148 and IOC/IODE.
- Delivery status of the 1st IQuOD data/flavour version: progress on the development/implementation of intelligent metadata, (random) uncertainty estimates, exact duplicates flagging, platform for Auto QC benchmarking and setting up public delivery.
- Plans towards benchmarking auto QC procedures using high quality reference datasets.
- Plans towards implementation of further advances for intelligent metadata, uncertainty estimates and duplicates.
- Discussion on potential approaches for expert QC & implementation.
- Discussion on potential approaches for implementation of knowledge transfer and capacity building, particularly in developing countries.
- Establishing synergies between IQuOD & XBT science team.
- Reviewing goals and actions for 2017/18 & planning for the 5th IQuOD workshop.

Note: some talks/discussions having been schedule to allow for remote participation considering various timezones.

## MONDAY – 3<sup>RD</sup> OCTOBER

Chair: Steve Diggs / Notetaker: Alison Macdonald			
9.00 – 9.10	Welcome by local organiser, logistics and workshop objectives	Masayoshi Ishii, Toru Suzuki	10 min
9.10 – 9.40	Japanese data rescue activities and related topics	Masayoshi Ishii	20 min + 10 min
9.40 – 10.00	Current IQuOD structure, summary of recent activities, IOC/IODE and SCOR WG 148	Catia Domingues, Toru Suzuki, Matt Palmer	15 min + 5 min
10.00 – 10.20	SCOR WG 148 deliverables: years 1, 2 and 3	Catia Domingues, Matt Palmer	15 min + 5 min
<b>10.20 – 10.50</b>	<b>Coffee break</b>		<b>30 min</b>
10.50 – 11.10	IQuOD v0.1 served through WODselect	Tim Boyer	15 min + 5 min
11.10 – 11.30	Exact duplicates: identification and decision making	Ann Thresher, Ed King	15 min + 5 min
11.30 – 11.50	Japanese wartime hydrography	Shoichi Kizu	15 min + 5 min
11.50 – 13.00	<b>GDAC</b> Interactions with other task teams: Need for a file format/data compliance task team? Strategy for uptake of high quality datasets? (eg, Hydrobase). Roadmap for implementation of <b>exact and near-exact duplicates</b> algorithms into IQuOD dataset versions	Discussion led by Tim Boyer and Ann Thresher	70 min
<b>13.00 – 14.00</b>	<b>Lunch</b>		<b>60 min</b>
Chair: Shoichi Kizu / Notetaker: Ann Thresher			
14.00 – 14.20	Progress on a new Met Office temperature and salinity dataset with incorporated uncertainties	Rachel Killick	15 + 5 min
14.20 – 14.40	Uncertainty task team: summary of activities	Bec Cowley	15 min + 5 min
14.40 – 15.40	Roadmap for implementation of <b>uncertainty</b> into IQuOD dataset versions	Discussion led by Bec Cowley	60 min
<b>15.40 – 16.00</b>	<b>Coffee break</b>		<b>20 min</b>
16.00 – 16.30	Intelligent metadata task team: summary of activities	Matt Palmer, Shoichi Kizu, Toru Suzuki	20 min + 10 min
16.30 – 17.30	Roadmap for implementation of <b>intelligent metadata</b> into IQuOD dataset versions.  Synergies between IQuOD & XBT science team	Discussion led by Shoichi Kizu, Toru Suzuki, Matt Palmer, Janet Sprintall, Gustavo Goni and Catia Domingues	60 min

## TUESDAY – 4<sup>TH</sup> OCTOBER

### WebEx Test for remote participants

7.45 – 8.45	Natalia Ribeiro Santos, Nicholas Pittman, and (possibly) some other remote participants	Local hosts	60 min
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### Chair: Toru Suzuki / Notetaker: Rachel Killick

9.00 – 9.20	Copernicus Marine Service, the European service for marine in situ data	Thierry Carval	15 min + 5 min
9.20 – 9.40	Coriolis data quality control system	Christine Coatanoan	15 min + 5 min
9.40 – 10.00	Further developments of the ICDC automated data quality control scheme with application for ocean climatologies	Viktor Gouretski	15 min + 5 min
10.00 – 10.20	CCHDO and IQuOD (title to be confirmed?)	Steve Diggs	15 min + 5 min
<b>10.20 – 10.50</b>	<b>Coffee break</b>		<b>30 min</b>
10.50 – 11.10	Crowd sourcing (To be confirmed)	Alison Macdonald	15 min + 5 min
11.10 – 11.30	Expert QC task team: summary of activities	Ann Thresher	15 min + 5 min
11.30 – 12.30	Drafting a roadmap for development & implementation of <b>expert QC</b> into IQuOD dataset versions (including crowd sourcing plans)	Discussion led by Ann Thresher	60 min
12.30 – 13.00	Group photo (outside if weather permits)		30 min
<b>13.00 – 14.00</b>	<b>Lunch</b>		<b>60 min</b>

### Chair: Catia Domingues / Notetaker: Steve Diggs

14.00 – 14.20	Quality control and duplicates removal for the Marine and Meteorological data from NMDIS/China	Liu Yulong	15 min + 5 min
14.20 – 14.50	Introduction of JODC and progress of XBT data rescue	Takeharu Miyake and Toru Suzuki	20 min + 10 min
14.50 – 15.10	IOC/IODE and IQuOD (TBA)	Prof Yutaka Michida	15 min + 5 min
15.10 – 15.40	<b>Knowledge transfer and capacity building:</b> bring your ideas and own experiences	Discussion led by Catia Domingues	30 min
<b>15.40 – 16.00</b>	<b>Coffee break</b>		<b>20 min</b>
16.00 – 16.20	Progress on the auto QC benchmarking	Simon Good	15 min + 5 min
16.20 – 17.30	Drafting a roadmap for development & implementation of <b>auto QC</b> into IQuOD dataset versions	Discussion led by Simon Good (Rachel?)	70 min
19.30 –	Workshop dinner: Gonpachi Nishi-Azabu ( <a href="http://www.gonpachi.jp/nishiazabu/">http://www.gonpachi.jp/nishiazabu/</a> ).	MIRC and JODC	

## WEDNESDAY – 5<sup>TH</sup> OCTOBER

Chair: Janet Sprintall / Notetaker: Bec Cowley			
9.00 – 9.20	TBC	Toshio Suga	15 min + 5 min
9.20 – 9.40	Review of action items + updates	Bec Cowley	20 min
9.40 – 10.40	Review of task teams (objectives, members/roles, resources needed, workflow/timeline, interactions/dependency on other task teams, regular communication)	Task team leaders	5 x 15 min = 60 min
<b>10.40 – 11.00</b>	<b>Coffee break</b>		<b>20 min</b>
11.00 – 11.30	Other communication/Wrap up <ul style="list-style-type: none"> <li>• Website documentation and functionality</li> <li>• CLIVAR scientific and implementation plan</li> <li>• A potential funding avenue: <a href="http://www.arc.gov.au/linkage-programme">http://www.arc.gov.au/linkage-programme</a></li> <li>• Suggestion for the 2017 IQuOD/XBT workshops: South Africa in conjunction with IAPSO-IAMAS-IAGS assembly and prior to SCOR meeting (4-6 Sept, Cape Town)</li> </ul>	Catia Domingues, Matt Palmer	30 min
11.30 – 11.50	Group photo (if not taken on tuesday)		20 min
<b>12.00 – 14.00</b>	<b>Lunch – XBT science workshop starts @ 2 pm</b>		<b>60 min</b>

## Remote participation

Please contact Shoichi Kizu ( [kizu@pol.gp.tohoku.ac.jp](mailto:kizu@pol.gp.tohoku.ac.jp) )

Webex test: Tuesday 4th October, 7.45-8.45 am

## Group photo

If not possible to take group photo in conference rooms A+B, suggestion is to walk to Hibiya Park, located just north of the venue building (subject to weather conditions). Tentative: Tuesday or Wednesday before lunchtime.

## Workshop dinner

Marine Information Research Center and Japan Oceanographic Data Center would like to invite you to welcome dinner at 7:30 pm on Tuesday, 4th October 2016 at Japanese pub restaurant "Gonpachi Nishi-Azabu" (<http://www.gonpachi.jp/nishiazabu/>). No dress code required.

## Site Facilities

WebEX, PA, Projector, Screen, Pointer, Outlet(Plug Type A, 100V/50Hz), Guest Wi-Fi (no charge), eduroam Wi-Fi

## Power/plug information

People who are not familiar with Japanese power sockets and voltage are recommended to learn about them before coming, for example, at

- <http://www.japan-guide.com/e/e2225.html>
- <http://www.worldstandards.eu/electricity/plugs-and-sockets/>
- [https://en.wikipedia.org/wiki/AC\\_power\\_plugs\\_and\\_sockets#JIS\\_C\\_8303.2C\\_Class\\_II\\_unearthed](https://en.wikipedia.org/wiki/AC_power_plugs_and_sockets#JIS_C_8303.2C_Class_II_unearthed)

The most popularly-seen type of sockets in Japan is so-called "Type A", but they are occasionally designed for non-polarized plugs (i.e. equally-sized two plates) and/or are often strict in size. So, polarized plugs may not fit. There are electronics retail stores in Ginza/Shimbashi area where you may be able to find adapters, but not guaranteed.

## List of Participants (as of 12 september 2016)

### [LINK](#)

\* means remote participation

\*\* means reception only

	Last Name	First Name	Organizational Affiliation	Country	Email Address
1	Baba**	Norio	Japan Oceanographic Data Center	Japan	nbaba.jodc@mbn.nifty.com
2	Bandow	Hiroshi	Assoc. of Int'l Research Initiatives for Environ. Studies	Japan	
3	Barma	Andrew	Scripps Institution of Oceanography	USA	abarna@ucsd.edu
4	Baringer	Molly	NOAA/AOML	USA	molly.baringer@noaa.gov
5	Boyer	Tim	NOAA/NCEI	USA	tim.boyer@noaa.gov
6	Bringas	Francis	NOAA/AOML	USA	francis.bringas@noaa.gov
7	Carval	Thierry	IFREMER	France	Thierry.Carval@ifremer.fr
8	Castelao*	Guilherme	Scripps Institution of Oceanography	USA	guilherme@castelao.net
9	Cheng	Lijing	IAP/CAS	China	chenglij@mail.iap.ac.cn
10	Cirano	Mauro	REMO/UFRJ	Brazil	mauro.cirano@gmail.com
11	Coatanoan	Christine	IFREMER	France	christine.coatanoan@ifremer.fr
12	Cowley	Rebecca	CSIRO	Australia	Rebecca.Cowley@csiro.au
13	Diggs	Steve	Scripps Institution of Oceanography	USA	sdiggs@ucsd.edu
14	Domingues	Catia M.	IMAS - ACE CRC, University of Tasmania	Australia	catia.domingues@csiro.au
15	Dong	Shenfu	NOAA/AOML	USA	shenfu.dong@noaa.gov
16	Durak*	Paul	Lawrence Livermore National Laboratory	USA	pauldurack@llnl.gov
17	Good*	Simon	Met Office	UK	simon.good@metoffice.gov.uk
18	Guideri*	Matteo	Italian Hydrographic Institute, Italian Navy	Italy	
19	Goes	Marlos	University of Miami/CIMAS and NOAA/AOML	USA	mgoes@rsmas.miami.edu
20	Goni	Gustavo	NOAA/AOML	USA	Gustavo.Goni@noaa.gov
21	Gopalakrishna	Visa	National Institute of Oceanography	India	gopal@nio.org
22	Gouretski	Viktor	University of Hamburg	Germany	viktor.gouretski@uni-hamburg.de
23	Hanawa	Kimio	Tohoku University	Japan	hanawa@pol.gp.tohoku.ac.jp

24	Hase	Hideaki	JAMSTEC	Japan	
25	Hidas	Marty	Integrated Marine Observing System, UTAS	Australia	marty.hidas@utas.edu.au
26	Idai	Toru	Marine Works Japan, LTD	Japan	
27	Ishii	Masayoshi	MRI/JMA	Japan	maish@mri-jma.go.jp,
28	Killick	Rachel	Met Office	UK	rachel.warren@metoffice.gov.uk
29	Kizu	Shoichi	Tohoku University	Japan	kizu@pol.gp.tohoku.ac.jp
30	Liu	Yulong	NMDIS	China	yulong0631@163.com
31	Macdonald	Alison	WHOI	USA	amacdonald@whoi.edu
32	Michida	Yutaka	University of Tokyo	Japan	ymichida@aori.u-tokyo.ac.jp
33	Miyake	Takeharu	Japan Oceanographic Data Center	Japan	
34	Muneda	Kouji	Japan Oceanographic Data Center	Japan	
35	Nakano	Toshiya	JMA	Japan	
36	Palmer*	Matt	Met Office	UK	matthew.palmer@metoffice.gov.uk
37	Repetti*	Luca	Italian Hydrographic Institute, Italian Navy	Italy	
38	Reseghetti*	Franco	ENEA - Italian National Agency for New Tech.	Italy	ranco.reseghetti@enea.it
39	Rosby	Thomas	University of Rhode Island	USA	
40	Sato	Kanako	JAMSTEC	Japan	
41	Sprintall	Janet	Scripps Institution of Oceanography	USA	jsprintall@ucsd.edu
42	Suga	Toshio	Tohoku University/JAMSTEC	Japan	
43	Suzuki	Toru	Marine Information Research Center	Japan	suzuki@mirc.jha.jp
44	Thresher	Ann G.	CSIRO	Australia	Ann.Thresher@csiro.au
45	Udaya Bhaskar	TVS	INCOIS / MoES	India	uday@incois.gov.in
46	Yabuki**	Tetsuichiro	Japan Oceanographic Data Center	Japan	jodc_director@jodc.go.jp