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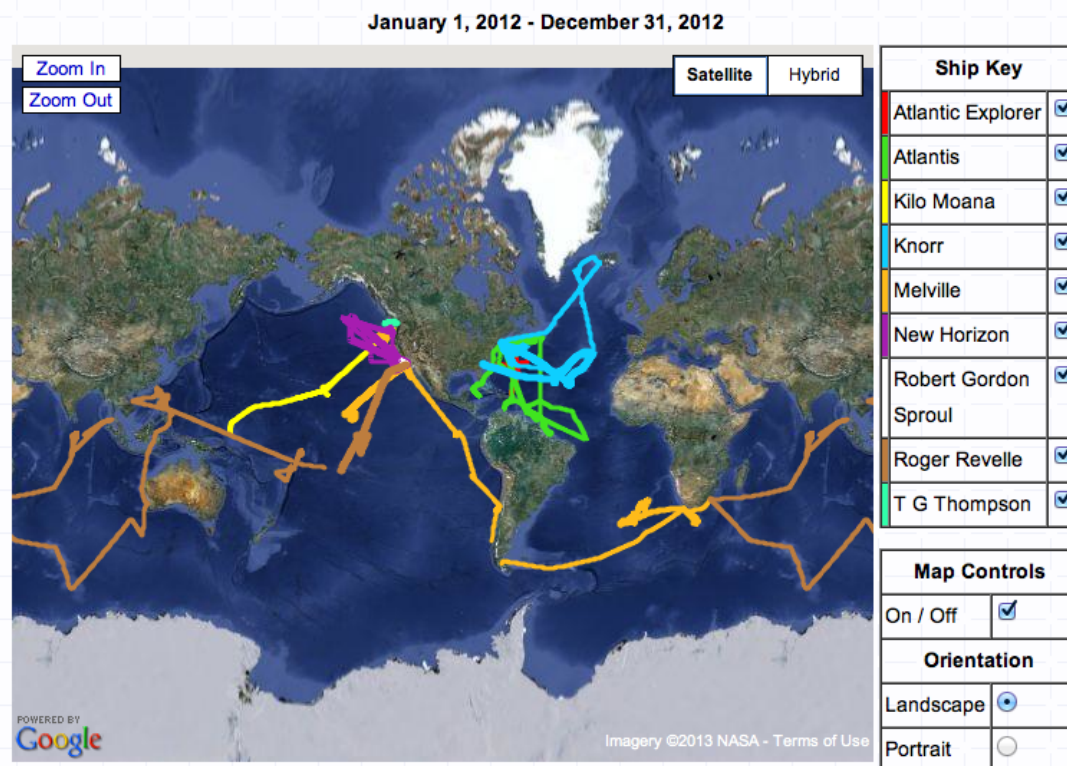
# Real-Time MET/TSG (SAMOS)

Shawn R. Smith, Kristen Briggs, and Jeremy Rolph

*RVTEC Meeting, 11-14 February 2013, LDEO*

# Recruited University Vessels

Vessel	Year Recruited
Atlantic Explorer	2010
Atlantis	2005
Endeavor*	2012
Kilo Moana	2009
Knorr	2005
Melville	2011
New Horizon	2012
Roger Revelle	2011
R.G. Sproul	2012
T.G. Thompson	2012



\*First vessel using SAMOS 2.0 data protocol

# Data Services

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- Daily sensor monitoring and automated data quality control
  - At sea notification of problems
- R2R quality assessment of original data file (prototype)
- Submission of original and quality processed real-time data to National Oceanographic Data Center (monthly)
- Reciprocal data service with R2R allowing download of RT MET/TSG data via cruise catalog
- Metadata management for MET and TSG instruments
- Quality reporting – NEW subscription service

- Mission
- What is a SAMOS?
- Data Pilot Project
- Data Policy
- Partnerships
- Acknowledgements
- Related Sites
- Site Contents
- Internal Info

# SAMOS

Shipboard Automated Meteorological and Oceanographic System

Please choose a page from the following list:

- |  |  |
|--|--|
| ■ <a href="#">Mission</a>                | Read about the objectives of the SAMOS Initiative and how the initiative plans to achieve these goals. The objectives can only be achieved through a close partnership with vessel operators and marine technicians. |
| ■ <a href="#">Desired Data</a>           | View a list of meteorological and oceanographic parameters that the initiative seeks to obtain from vessels.   |
| ■ <a href="#">Benefits to Vessel</a>     | How will participation in SAMOS benefit your vessel operations and data stewardship?   |
| ■ <a href="#">Partnership with GOSUD</a> | A recent workshop has outlined plans for a data exchange with the Global Ocean Surface Underway Data Pilot Project.  |
| ■ <a href="#">Steps to Participation</a> | What are the steps to having your vessel(s) participate in the SAMOS Initiative?   |
| ■ <a href="#">Metadata Interface</a>     | Ship operator interface to add/modify metadata for their institution's vessels. Login required. <a href="#">Instructions here.</a>   |
| ■ <a href="#">Metadata Subscription</a>  | If you would like a subscription account, please contact <a href="mailto:samos@coaps.fsu.edu">samos@coaps.fsu.edu</a>  |

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## Data Subscription

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### Login

Username:

Password:

Login

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## Data Subscription

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### My Subscriptions

Ship	Threshold	Frequency	Update	
------	-----------	-----------	--------	--

KAQP	1 days	3 days	Update	<a href="#">View Report</a>   <a href="#">Delete</a>
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NEPP	1 days	1 days	Update	<a href="#">View Report</a>   <a href="#">Delete</a>
------	--------	--------	--------	--

[View All](#)

### New Subscription

Select a ship and choose a notification threshold for the selected ship. If the consecutive days we have not recieved data from the ship exceeds the notification threshold an email notification with a link to the report will be sent. The frequency is how often emails will be sent once notification emails have begun.

Ship:

METEOR (DBBH)

Notification Threshold:

1 days

Frequency:

1 days

Submit

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## Preliminary file availability

The purpose of this page is to allow the user to track the existence of preliminary files of all active ships.

[Return to subscription](#)

File exist File not exist												
ship	2013/01/29	2013/01/30	2013/01/31	2013/02/01	2013/02/02	2013/02/03	2013/02/04	2013/02/05	2013/02/06	2013/02/07	2013/02/08	Days since last file received
KAOU												12
KAQP												0
KCEJ												1
KTDQ												213
WCE5063												112
WDA7827												235
WDC9417												8
WECB												0
WKWB												0
WSQ2674												49

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## Data Subscription

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You will automatically be email the report generated each month for KAQP in v300 Quality Control (PDF) format

## Download Report

Ship

Year

Month

Report

## My Reports

You can view or unsubscribe from a report at any time. Additionally, you can have the PDF and/or CSV file automatically emailed to you each month.

### Ship Report

KAQP   [Delete](#)

## Add Report

Ship:

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## Quality Control Summary For KAQP 10/2010

Variable	10/1	10/2	10/3	10/4	10/5	10/6	10/7	10/8	10/9	10/10	10/11	10/12	10/13	10/14	10/15	10/16
Air Temperature	●	●	■	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Temperature 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Temperature 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Atmospheric Pressure	●	●	●	●	●	●	●	●	■	●	●	●	●	■	●	●
Atmospheric Pressure 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Atmospheric Pressure 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Conductivity	■	■	●	■	■	■	■	■	■	●	●	●	●	●	▲	■
Earth Relative Wind Direction	●	●	●	●	●	●	●	●	■	▲	▲	●	●	■	●	●
Earth Relative Wind Direction 2	●	●	●	●	●	●	●	●	■	●	●	●	●	●	●	●
Earth Relative Wind Direction 3	●	●	●	●	●	●	●	●	■	●	●	●	●	▲	●	●
Earth Relative Wind Speed	●	●	●	●	●	●	●	●	■	●	●	●	●	■	●	●
Earth Relative Wind Speed 2	●	●	●	●	●	●	●	●	■	●	●	●	●	▲	●	●
Earth Relative Wind Speed 3	●	●	●	●	●	●	●	●	■	●	●	●	●	●	●	●
Latitude	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Longitude	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Course	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Heading	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Relative Wind Direction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform Relative Wind Direction 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Relative Wind Direction 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Relative Wind Speed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platform Relative Wind Speed 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Relative Wind Speed 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Speed Over Ground	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Precipitation Accumulation	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precipitation Accumulation 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Precipitation Accumulation 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	■	■
Rain Rate	▲	●	▲	●	●	■	●	●	●	●	●	●	●	▲	▲	●
Rain Rate 2	▲	●	●	●	●	■	●	●	●	●	●	●	●	●	▲	●
Rain Rate 3	▲	●	▲	▲	●	■	●	●	●	●	●	●	●	▲	▲	●
Relative Humidity	●	●	■	■	●	■	●	●	●	●	●	●	●	●	●	●
Relative Humidity 2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Relative Humidity 3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Salinity	■	■	●	■	■	■	■	■	■	●	●	●	●	●	▲	■
Sea Temperature	●	●	●	●	●	●	●	●	●	●	●	●	●	●	▲	●
Short Wave Atmospheric Radiation	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Time	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● = 0-5% flagged | ▲ = 5-10% flagged | ■ = >10% flagged

## KAQP 2012-01 Metadata Status

Parameter	Designator	Make	Model	Units	From bow	P/S from center line	Height / Depth	Measured / Cal- culated	Spot vs. Average Value	Value Time Center	Length (sec)	Sampling rate (Hz)	Data preci- sion (decim- al)	Date in/last calibra- tion
Air Temperature	AT	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Temperature 2	WPAT	■	■	●	■	■	■	●	■	■	■	■	■	■
Air Temperature 3	WSAT	■	■	●	■	■	■	■	■	■	■	■	■	■
Atmospheric Pres- sure	BP	●	●	●	●	●	●	●	●	●	●	●	●	●
Atmospheric Pres- sure 2	WPBP	■	■	●	■	■	●	●	■	■	■	■	■	■
Atmospheric Pres- sure 3	WSBP	■	■	●	■	■	●	■	■	■	■	■	■	■
Conductivity	SSC	●	●	●	■	■	■	■	■	■	■	■	■	■
Earth Relative Wind Direction	TIP	●	●	●	●	●	●	●	●	●	●	●	●	-
Earth Relative Wind Direction 2	WPTD	●	●	●	■	■	●	●	●	●	●	■	■	■
Earth Relative Wind Direction 3	WSTD	●	●	●	■	■	●	●	●	●	●	■	■	■
Earth Relative Wind Speed	TWP	●	●	●	●	●	●	●	●	●	●	●	●	-
Earth Relative Wind Speed 2	WPTS	●	●	●	■	■	●	●	●	●	●	■	■	■
Earth Relative Wind Speed 3	WSTS	●	●	●	■	■	●	●	●	●	●	■	■	-
Latitude	LA	●	●	●	-	-	-	●	■	■	■	■	●	■
Longitude	LO	●	●	●	-	-	-	●	■	■	■	■	●	■
Platform Course	COG	●	●	●	-	-	-	●	■	■	■	■	●	■
Platform Heading	GY	●	●	●	-	-	-	●	■	■	■	■	●	■
Platform Relative Wind Direction	Imet.wndd	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Relative Wind Direction 2	WPRD	●	●	●	■	■	●	■	■	■	■	■	■	■
Platform Relative Wind Direction 3	WSRD	●	●	●	■	■	●	■	■	■	■	■	■	■
Platform Relative Wind Speed	Imet.wnds	●	●	●	●	●	●	●	●	●	●	●	●	●
Platform Relative Wind Speed 2	WPRS	●	●	●	■	■	●	■	■	■	■	■	■	■

● : <=6 months old | ▲ : >6 months old | ■ : no metadata reported