

# Data Policy & Data Archive Centers

YMC adopts “timely release & free/open sharing data policy”.

All QCed data will be opened from YMC data archive centers (web sites). Basically researchers are requested to provide QCed data within 1 year after the campaign.

\* Same as CINDY/DYNAMO Data Policy \*

## Data Archive Centers

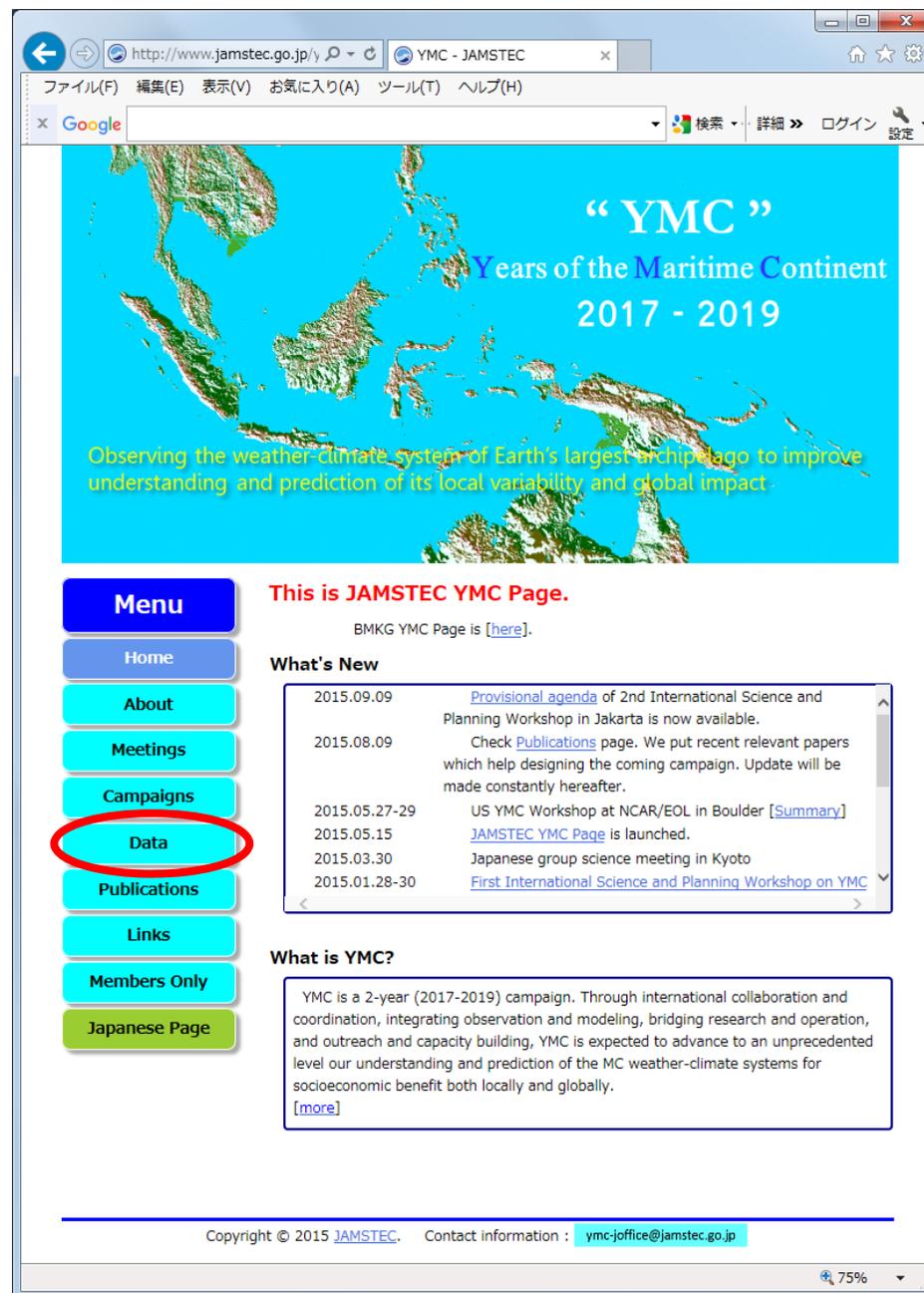
BMKG, Indonesia

<http://www.bmkg.go.id/ymc/>

JAMSTEC, Japan

<http://www.jamstec.go.jp/ymc/>

One more (?)



The screenshot shows the JAMSTEC YMC website. The main banner features a map of the Maritime Continent with the text “ YMC ” Years of the Maritime Continent 2017 - 2019. Below the map, it states: Observing the weather-climate system of Earth's largest archipelago to improve understanding and prediction of its local variability and global impact.

The website has a navigation menu on the left with the following items: Menu, Home, About, Meetings, Campaigns, Data (highlighted with a red circle), Publications, Links, Members Only, and Japanese Page.

The main content area includes a section titled “ This is JAMSTEC YMC Page. ” with a link to the BMKG YMC Page. Below this is a “ What's New ” section with a list of recent events:

- 2015.09.09: Provisional agenda of 2nd International Science and Planning Workshop in Jakarta is now available.
- 2015.08.09: Check Publications page. We put recent relevant papers which help designing the coming campaign. Update will be made constantly hereafter.
- 2015.05.27-29: US YMC Workshop at NCAR/EOL in Boulder [Summary]
- 2015.05.15: JAMSTEC YMC Page is launched.
- 2015.03.30: Japanese group science meeting in Kyoto
- 2015.01.28-30: First International Science and Planning Workshop on YMC

There is also a “ What is YMC? ” section with a brief description of the campaign and a [more] link.

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# Data Policy

YMC adopts timely release and free/open sharing data policy. Indeed, the YMC data policy should be in compliance with the World Meteorological Organization (WMO) Resolution 40 on the policy and practice for the exchange of meteorological and related data and products including guidelines on relationships in commercial meteorological activities: *"As a fundamental principle of the World Meteorological Organization (WMO), and in consonance with the expanding requirements for its scientific and technical expertise, the WMO commits itself to broadening and enhancing the free and unrestricted international exchange of meteorological and related data and products."* Additional YMC data policy requires:

- a) YMC Data (field observations, operational observations, satellite data, reanalyses, and model output) Archive Centers (YDACs) will be established and maintained at several institutes with links to each other.
- b) Within 12 months following the end of the field campaign, all data shall be promptly provided by YMC investigators responsible for data acquisition to other YMC investigators upon request and notification of the intent of data use.
- c) All YMC investigators participating in the field campaign are required to submit their field data to one of the YDACs no later than 12 months following the end of the field campaign.
- d) During the first 12 months following the end of the field campaign, all YMC data will be accessible only to YMC investigators to facilitate inter-comparison, quality control checks and inter-calibrations, as well as an integrated interpretation of the combined data set. No public release of the data (sharing with non-YMC colleagues, conference presentations, publications, commercial and media use, etc.) is allowed without the permission of the YMC PIs who are responsible for collecting the data.

# Data Policy

- a) Quality control procedures should be carried out by YMC investigators within 12 months following the end of the field campaign, unless unforeseeable issues emerge. After that, YMC field data will be made available to the broader scientific community. Any remaining data quality issues should be made clear in the data documentation files. Improving YMC data quality will be a continuous effort. The suitability of the released data for scientific investigations and publications should be decided at the discretion of the YMC investigators responsible for field data collection and quality control and data users.
- b) The authorship decision for publications resulting from using YMC data should follow the ethic rules of the journals and professional organizations (e.g., AMS, AGU, JMSJ). YMC investigators responsible for field data collection are encouraged to make contributions to data analysis and writing of manuscripts, in addition to providing the data, to be co-authors of publications using YMC data.
- c) The following acknowledgements are suggested to be included in all publications using YMC data: The xxx data were collected as part of YMC by investigator(s) YYYY under the support by www (if YYYY is not a co-author)]. The data are archived at the YMC Data Archive Center maintained by ZZZZ.

# Data Management

The screenshot shows the 'YMC - Campaigns' page in a web browser. The address bar displays 'http://www.jamstec.go.jp/'. The page features a navigation menu on the left with buttons for Home, About, What's New, Meetings, Campaigns, Data, Publications, Links, Members Only, and Japanese Page. The main content area is divided into three sections: [ Intensive Observations ], [ Long-term Observations ], and [ Numerical Modeling ].

- [ Intensive Observations ]**
  - Indonesia-Japan Joint Research on and off the west coast of Sumatra in Nov - Dec 2017
  - Pre-YMC Observations in 2015 [data list]
- [ Long-term Observations ]**
  - Radiosonde Sounding Network
  - Weather Radar Network
  - NASA AERONET & MPLNET
- [ Numerical Modeling ]**
  - Coming soon

At the bottom, the footer contains: © 2015 JAMSTEC. Contact information : ymc-joffice@jamstec.go.jp

<http://www.jamstec.go.jp/ymc/>

## Campaigns Page

- [ Intensive Observations ]
- [ Long-term Observations ]
- [ Numerical Modeling ]

The screenshot shows the 'YMC' homepage. The header features a map of the Maritime Continent with the text: "YMC" Years of the Maritime Continent 2017 - 2019. Below the map, it states: "Observing the weather-climate system of Earth's largest archipelago to improve understanding and prediction of its local variability and global impact." The page includes a navigation menu on the left, a 'What's New' section with a list of updates, and a 'What is YMC?' section. The 'Campaigns' button in the menu is circled in pink, and an arrow points from this button to the 'Campaigns' page shown in the larger screenshot on the left.

**What's New**

- 2016.12.10 Several observational plans are introduced at the Campaigns page.
- 2016.12.01 Note: Due to maintenance, YMC web site will not be available during Dec 3-4.
- 2016.11.15 YMC activity is introduced at the [WMO/Working Group on Tropical Meteorology Research web site](#).
- 16.08.12 YMC Mailing List has just been opened. To join, please contact to [ymc-joffice@jamstec.go.jp](mailto:ymc-joffice@jamstec.go.jp).

**What is YMC?**

YMC is a 2-year (2017-2019) campaign. Through international collaboration and coordination, integrating observation and modeling, bridging research and operation, and outreach and capacity building, YMC is expected to advance to an unprecedented level our understanding and prediction of the MC weather-climate systems for socioeconomic benefit both locally and globally.

[\[More\]](#)

**Documentation**

- Executive Summary [pdf] [html]
- Science Plan (ver.2) [pdf]
- Implementing Plan [coming soon]

# Pilot Study of YMC Data Management

The screenshot shows a web browser window with the URL <http://www.jamstec.go.jp/>. The page title is "YMC - Campaigns". The browser's menu bar includes "ファイル(E)", "編集(E)", "表示(V)", "お気に入り(A)", "ツール(I)", and "ヘルプ(H)". The search bar contains "Google". The page content includes a "Menu" sidebar with buttons for "Home", "About", "What's New", "Meetings", "Campaigns", "Data", "Publications", "Links", "Members Only", and "Japanese Page". The main content area is titled "Master List of Pre-YMC Data Sets" and features a sub-header "R/V MIRAI [Cruise Report]". Below this is a table with the following data:

No.	Name	Period	Remarks
01	<a href="#">Radiosonde</a>	Nov 06-Dec 18, 2015	<a href="#">Readme</a>
02	GNSS precipitable water	Nov 04-Dec 18, 2015	
03	Scanning C-band Doppler Radar	Nov 08-Dec 19, 2015	
04	Ka-band radar	Nov 05-Dec 20, 2015	
05	Micro rain radar	Nov 08-Dec 19, 2015	
06	Disdrometer	Nov 05-Dec 19, 2015	
07	Videosondes	Irregular	
08	Lidar	Nov. 12-Dec. 19, 2015	
09	<a href="#">Ceilometer</a>	Nov. 05-Dec. 20, 2015	<a href="#">Readme</a>
10	Sky radiometer	Nov. 05-Dec. 20, 2015	
11	Aerosol and gas observations	Nov. 05-Dec. 20, 2015	
12	Greenhouse gas observations	Nov. 05-Dec. 17, 2015	
13	<a href="#">Surface meteorology</a>	Nov. 05-Dec. 20, 2015	<a href="#">Readme</a>
14	Surface seawater	Nov. 06-Dec. 19, 2015	
15	pCO2	Nov. 08-Nov. 13, 2015	
16	<a href="#">CTD</a>	Nov. 20-Dec. 17, 2015	<a href="#">Readme</a>
17	Nutrients of sampled water	Nov. 20-Dec. 17, 2015	

The screenshot shows a web browser window with the URL <http://www.jamstec.go.jp/ymc/>. The page title is "YMC - JAMSTEC". The browser's menu bar includes "ファイル(F)", "編集(E)", "表示(V)", "お気に入り(A)", "ツール(I)", and "ヘルプ(H)". The search bar contains "Google". The page content includes a "Menu" sidebar with buttons for "Home", "About", "What's New", "Meetings", "Campaigns", "Data", "Publications", "Links", "Members Only", and "Japanese Page". The main content area features a large blue banner with a map of the Maritime Continent and the text "“YMC” Years of the Maritime Continent 2017 - 2019". Below the banner is a "Menu" section with a "Links" button circled in red. The "Links" button is highlighted with a red circle and an arrow pointing to the "Links" button in the left sidebar of the first screenshot. The page also includes a "What's New" section with a list of updates and a "What is YMC?" section with a description of the campaign.

JAMSTEC has already released some of quality controlled data from Pre-YMC data page. Table indicates what kind of data were obtained regardless with data release, so that researchers can know the status.

## Specific Topics on Data Issues

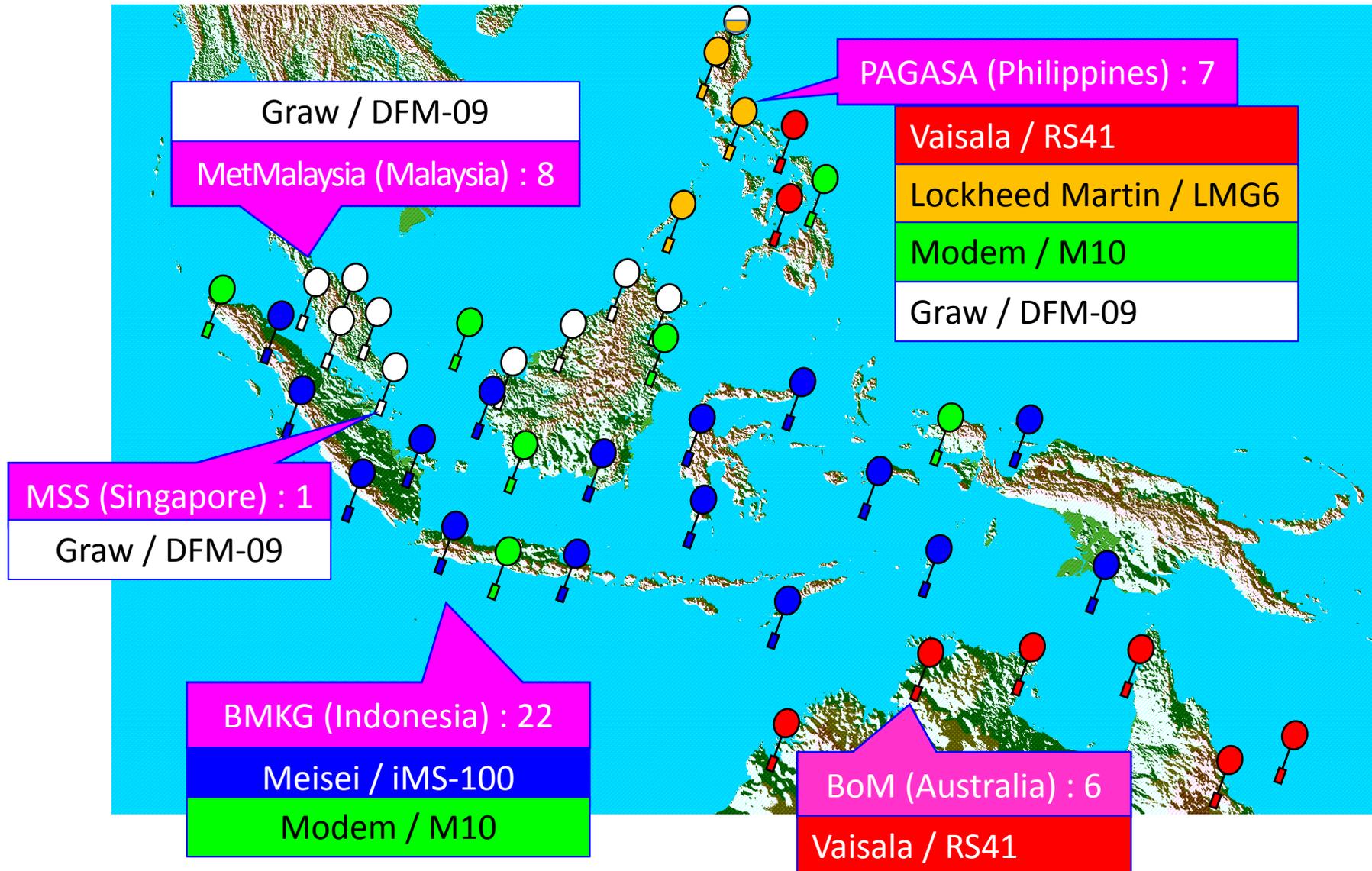
## Remarks for Observations

- 1) To incorporate observation into analysis products, it is strongly encouraged to send data through GTS.
- 2) Observations with (WMO) ID is required for easy assimilation (operational centers should know the data source in advance)
- 3) For radiosonde data, BUFR (Binary Universal Form for the Representation of meteorological data) format is recommended to adopt.
- 4) Effort should be paid to obtain accurate data as much as possible.

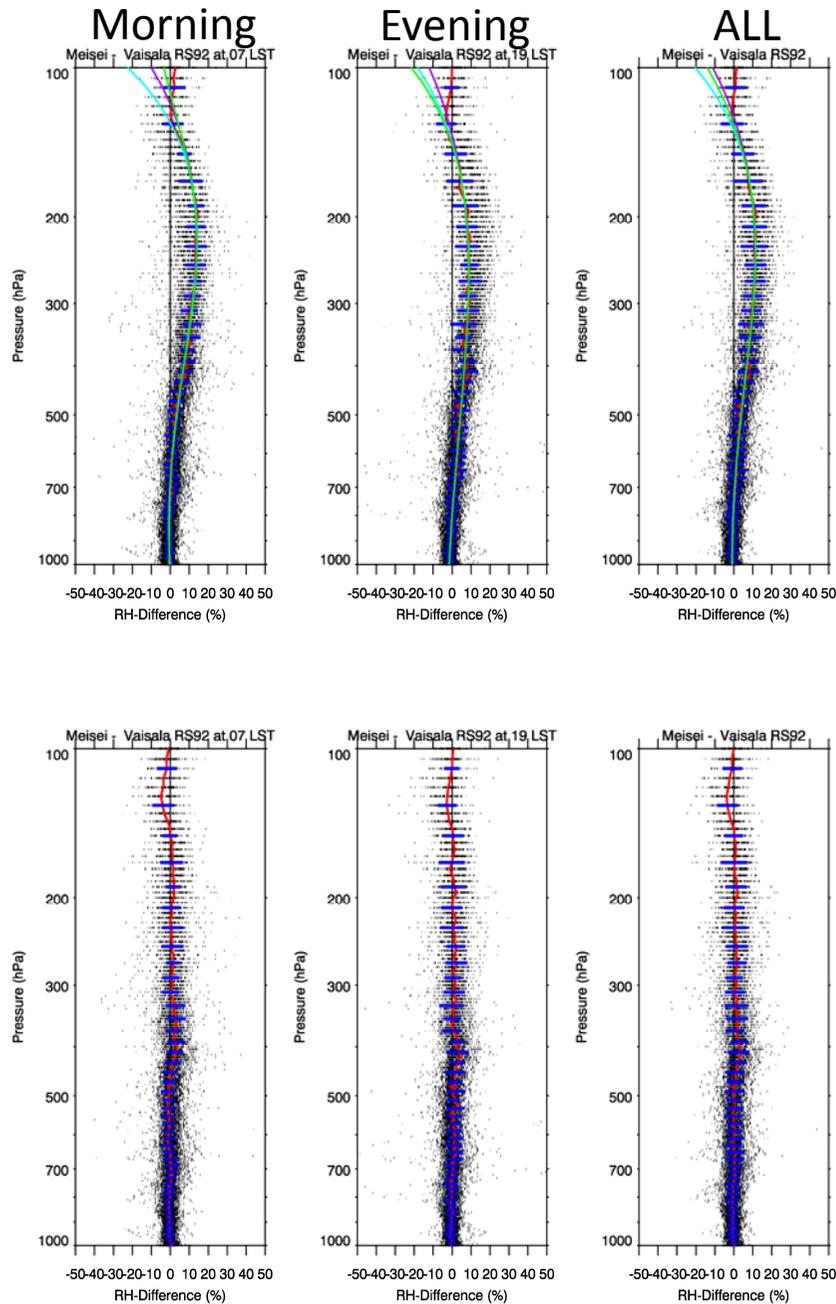
# Routine Observations by MC Met Agencies

Routine data (twice daily) have been sent via GTS.

In addition, enhanced soundings ( 4 – 8 times/day) will be conducted at some sites during the IOPs.



# RH Data Correction based on CDF Matching / Inter-comparison

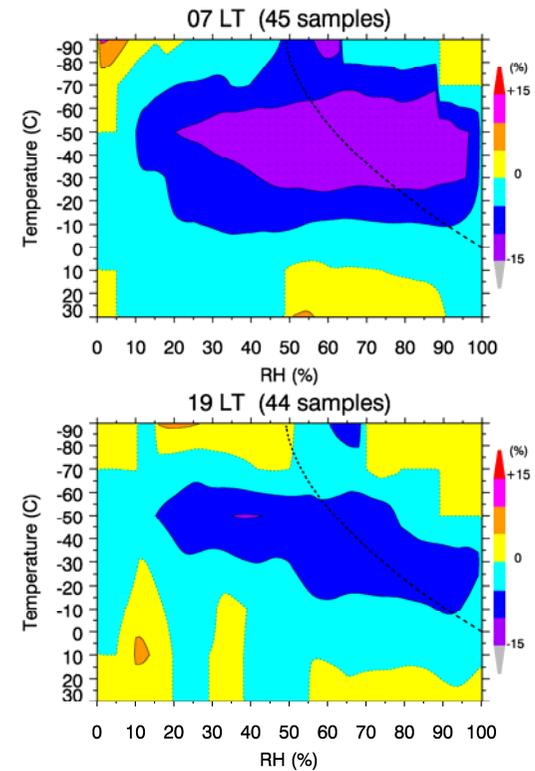


Before

After

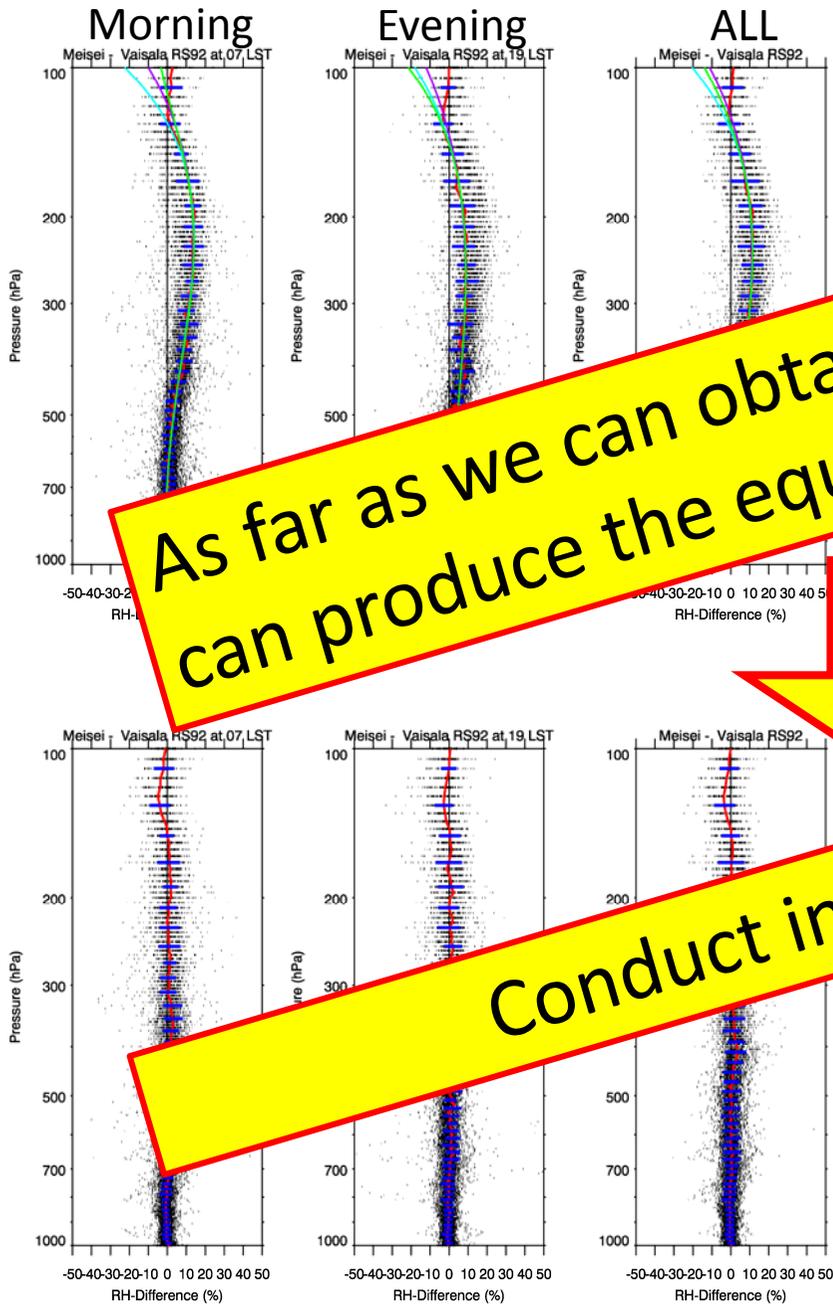
Most reliable value  
because of  
no assumption

## CDF Matching



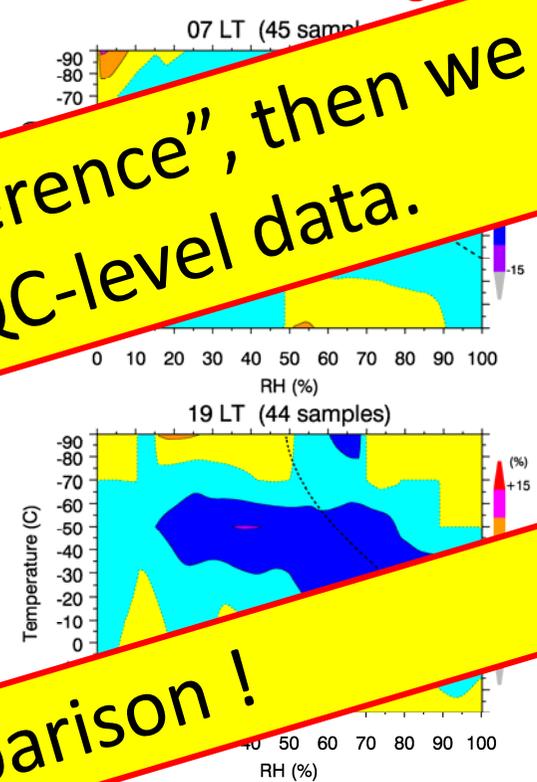
CFH water vapor sonde

# RH Data Correction based on CDF Matching / Inter-comparison



**CDF Matching**

As far as we can obtain a "reference", then we can produce the equivalent QC-level data.



**Conduct inter-comparison !**

Most reliable value because of no assumption



**CFH water vapor sonde**

Any other instruments ?