

# SST activities at JMA

Shiro ISHIZAKI, Yukio KURIHARA,  
Mika KIMURA, Udai SHIMADA and  
Yoshiaki KANNO



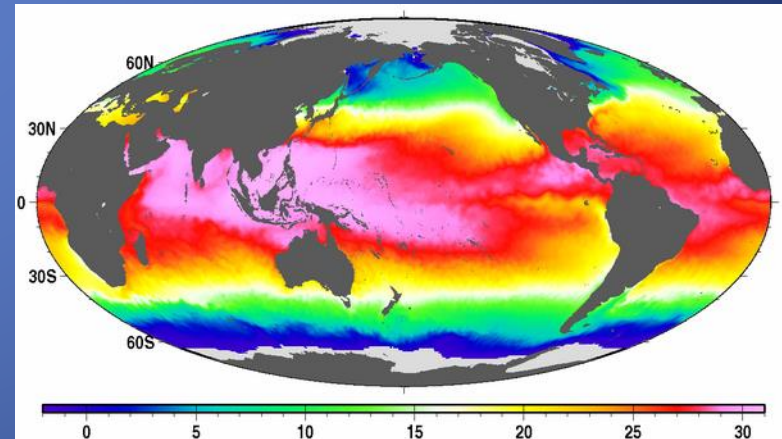
GHRSSST XIV @WHOI 2013



# introduction

## ➤ MGDSST

- Global ,1/4° resolution, Daily
- Input : AVHRR,AMSR2,Windsat,in-situ
- prompt /delayed analysis and reanalysis
- in operation since 2004
- text formatted files :
  - » available by  
NEAR-GOOS Database  
<http://goos.kishou.go.jp/>



# introduction (Cont.)

## ➤ MTSAT SST

- 1-D Var based on single layer RTM considering;
  - » water vapor absorption
  - » sea surface emissivity
- generated on operational basis

## ➤ Regional SST analysis

- western North Pacific ,1/10° resolution, Daily
- Input : AVHRR,AMSR2,MTSAT,in-situ
- under developing

# Main activities since G-XIII

## ➤ MGDSST (operational analysis)

- Since Feb. 2013 : using Windsat SST
- Since 27 May 2013 : using AMSR2 SST

## ➤ MGDSST (reanalysis)

- reprocess for 1982-2006 using PFV5.0/5.1

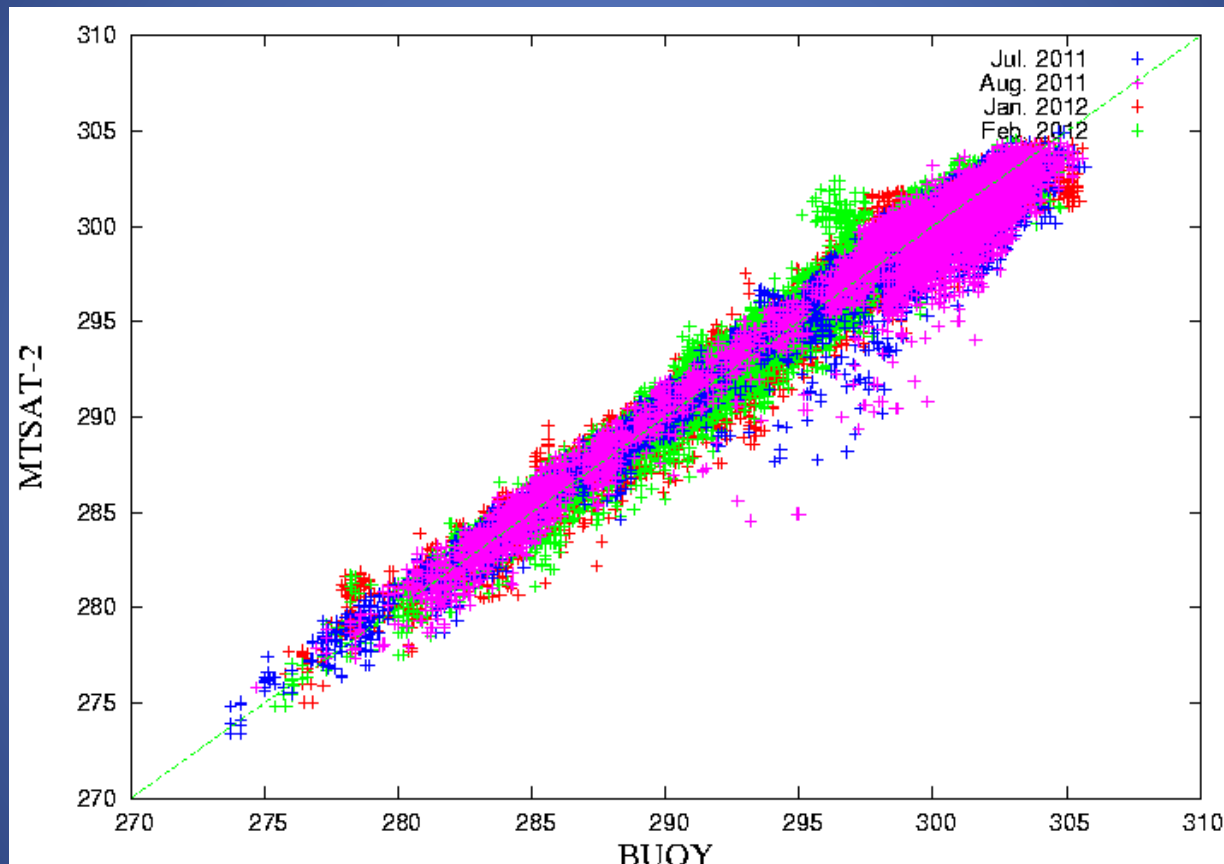
## ➤ MTSAT SST

- new retrieve method is applied to operational system

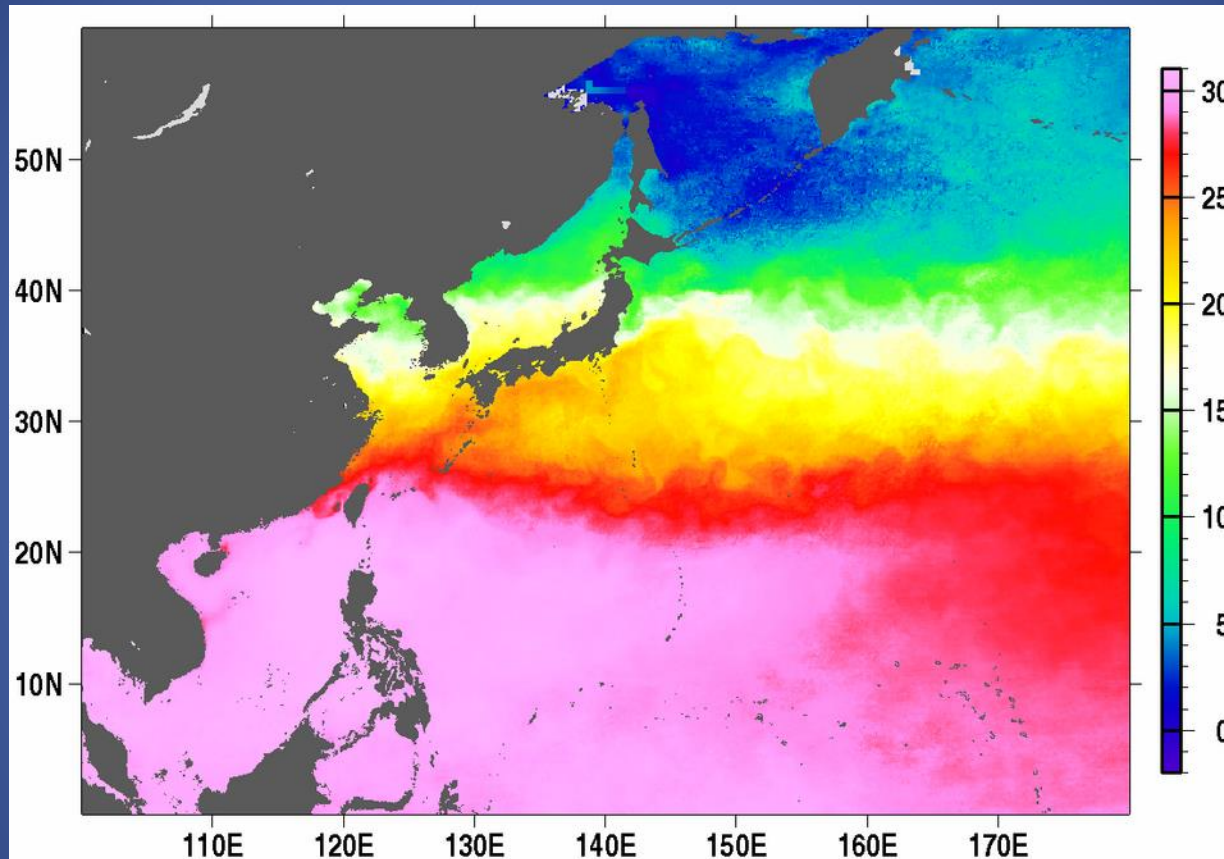
## ➤ Regional SST analysis

- start to develop analysis system

# Comparison: MTSAT with Buoy



# Regional SST analysis



# GDS 2.0 Implementation

- JMA has a plan to create files of NetCDF version based on GDS-2.0 format for
  - MGDSST
  - MTSAT SST
  - SST of Himawari-8 (plan to be launched FY2014)
  - Regional SST analysis (under developing)
- schedule : TBD

# Issues to be raised at G-XIV

- Impact of AMSR2 SST on SST analysis
- Current status of activity for retrieving VIIRS SST
- SST from Geostationary Satellite
  - How to exchange?
  - How to ingest into SST analysis