

Review of SoWMEX/TiMREX Data Archive

Chin-Tzu Fong, CWB

馮欽賜

James Moore, NCAR/EOL

SoWMEX/TiMREX Field Catalog

Southwest Monsoon Experiment 2008
Terrain-influenced Monsoon Rainfall Experiment

SoWMEX TiMREX

[View Latest Data](#)

Reports Operational Products Model/Forecast Products Research Products Missions Tools & Links Sowmex Home

Latest News
News from Science Director (0400UTC June 25, 2008)

The field observation of SoWMEX/TiMREX will be terminated on 12Z June 26, 2008 after the discussion on Science Meeting of June 25. Since there are many scientists are not available to attend the Science Team Meeting on the morning of June 27, we have decided that the Science Team Meeting will be postponed and the date for it will be decided after a survey. However, on the morning of June 27, a program wrap-up meeting will be still conducted. The purpose of this meeting is to summarize the SOP/EOP/IOP operation of SoWMEX/TiMREX.

[news history](#)

CWB
NCAR
NTU
NCU

Central Weather Bureau Copyright Reserved
Best viewed with IE 6.0 or Firefox 1.0.1 above at 1024 x 768 resolution
Taiwan Time : 2008-06-25 16:03:03 UTC : 2008-06-25 08:03:03

Collections of Field Catalog

- Operational Products

■ Satellite

- IR/Vis/WV channels for global/Asia/Taiwan domains with 30min update
- *31,065* images collected

■ Radar

- Reflectivity and radial velocity for four Taiwan operational radars with 6 to 10min update
- *248,995* images collected

■ Surface

- Surface analysis/mesonet and precipitation observations/Taipower lightning with one hour to 10min update
- *31,142* plots collected

■ Upper Air

- Upper air analysis/skew-t/time-high with 3 hourly update as available
- *5,962* plots collected

Data Archive Access



User Name :

Password :

According to the SoWMEX/TiMREX data policy, until 31 December 2009 the data access is restricted and needs a [login application](#), which will be approved by SoWMEX/TiMREX science team co-chairs.





- Summary of user logins to the SoWMEX/TiMREX Data archive as of 01 October 2009:
 - 53 Users has logged in and downloaded data
 - More than 40000 files/images downloaded






Current Data Archive Listing

Upper Air	Surface	Model	Radar	Satellite
Upper Air : Soundings				
GTS global and Taiwan's local sounding data in WMO standard format (temp c)				
GTS global and Taiwan's local sounding data in FGGE format (temp)				
Taiwan's local sounding data in WMO standard format (temp codes)				
Taiwan's local sounding RAW data with vertically high resolution				
Upper Air : Dropsondes				
Dropsonde data in WMO standard format(temp codes)				
Dropsonde data in FGGE format (temp)				
Dropsonde RAW data with vertically high resolution				
Dropsonde QCed data (after NCAR/ASPEN software QC procedure)				
Dropsonde flight track				
Surface				
GTS global and Taiwan's local weather stations observations in WMO standard format (synop codes)				
GTS global and Taiwan's local airport stations observations in WMO standard format (metar codes)				
GTS global and Taiwan's local weather stations observations in FGGE format (synop)				
GTS global and Taiwan's local airport stations observations in FGGE format (metar)				
Non-QCed rainfall observations of CWB's automated rain gauge network with 10min freq.				
Non-QCed surface observations of CWB's mesonet with hourly freq.				
Non-QCed surface observations of CWB's mesonet with 1min freq.				
TaiPower raw lightning data				






- The raw data that scientists are most interested in have been collected in real time and available currently on data archive.
- As of 01 October 2009, 159GB datasets have been downloaded from the archive









Current Data Archive Status

Upper Air : Soundings_2008	Date	
GTS global and Taiwan's local sounding data in WMO standard format (temp codes including us & uk)	2008-08-30	
GTS global and Taiwan's local sounding data in FGGE format (us temp)	2008-08-30	
GTS global and Taiwan's local ship sounding data in FGGE format (uk temp)	2008-08-30	
Taiwan's local sounding RAW data with vertically high resolution	2008-08-30	
Taiwan's local sounding SkewT plot products	2008-08-30	
QCed SoWMEX/TiMREX Sounding Data (Application Necessary)(Version 1)	2009-03-20	





Upper Air : Dropsondes_2008	Date	
Dropsonde data in WMO standard format(temp codes)	2008-08-30	
Dropsonde data in FGGE format (temp)	2008-08-30	
Dropsonde RAW data with vertically high resolution	2008-08-30	
Dropsonde QCed data (after NCAR/ASPEN software QC procedure)	2008-08-30	
Dropsonde flight track	2008-08-30	

Current Data Archive Listing (cont)

Satellite : Satellite_2008	Date	
Satellite MTSAT IR1 data	2008-09-30	
Satellite MTSAT IR2 data	2008-08-30	
Satellite MTSAT WV data	2008-08-30	
Satellite MTSAT IR4 data	2008-08-30	
Satellite MTSAT VIS data	2008-08-30	

Radar : Radar_2008	Date	
Cigu Radar data (Rainbow 5)	2008-09-30	
Cigu Radar data (Rainbow 3.4)	2009-04-15	
Kenting Radar data (Rainbow 5)	2008-08-30	
Kenting Radar data (Rainbow 3.4)	2009-04-15	
Hualien Radar data (Rainbow 5)	2008-12-15	
Hualien Radar data (Rainbow 3.4)	2009-04-15	
Wufenshan Radar data	2008-12-15	
Team Radar data	2009-03-06	

Current Data Archive Listing (cont)

Surface : Surface_2008	Date	
GTS global and Taiwan's local weather stations observations in WMO standard format (synop codes)	2008-08-30	
GTS global and Taiwan's local airport stations observations in WMO standard format (metar codes)	2008-08-30	
GTS global and Taiwan's local weather stations observations in FGGE format (synop)	2008-08-30	
GTS global and Taiwan's local airport stations observations in FGGE format (metar)	2008-08-30	
Non-QCed rainfall observations of CWB's automated raingauge network with 10min freq.	2008-08-30	
Non-QCed surface observations of CWB's mesonet with hourly freq.	2008-08-30	
Non-QCed surface observations of CWB's mesonet with 1min freq.	2009-03-18	
TaiPower raw lightning data	2008-08-30	
QPESUMS Hourly QPE_GaugeCorr Data	2008-08-30	

Summary of Special Research Datasets

Listing of Research datasets

How many users, how many datasets

Data Archive Status

SoWMEX/TiMREX Data Archive		
Item	File Number	Data Size
Radar	8477	95 GB
Satellite	230	17 GB
Surface	1919	3.6 GB
Upper-air	1959	1.1 GB

Some Statistics for Data Access

- Approved Users : 53
- Total times of data being downloaded :
41,456 times
- Total size of data being downloaded : 159GB

Ranking of Data Access

Product	Times of data downloaded
Sounding-related data	10363
Weather/airport stations data	5849
Rain-gauge data	2125
Dropsonde data	1467
Lightening data	598
Team radar data	496
Satellite data	353

Note: CWB operational radar data are not at the ranking due to data have been provided to PIs in advance.

Future Considerations

- Provide single access point for project results, including inventory of all SoWMEX/TiMREX Publications
- Encourage archival of ‘derived’ datasets (e.g. processed radar analysis fields) as *Level 4 data*
- Data organized by case studies can be developed
- Open access to all project datasets according to the data policy after *31 December 2009 with extended restricted access considered by the Science Team*