

TWP-ICE processed data available from Tim

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Here is a list of some of the TWP-ICE processed data which I have.
Note: please email Tim if you want to access these data - greg

1) Dry bias corrected radiosonde soundings

The RS92 radiosondes used in TWP-ICE contain a significant daytime dry bias in the upper troposphere. This is caused by solar heating of the humidity sensor. I have applied a correction to the soundings.

2) Rainfall data

I have gathered together rain data from about twenty weather stations in the Darwin region. The data have been reformatted into a common format, and had some basic quality control applied.

3) Sensible and latent heat flux data

Monash university ran four flux stations during TWP-ICE. I have reformatted the data into NetCDF format. These reformatted data are now available on the ARM IOP site, so this data set might not need to be included in your list.

4) Radar rain rate data

Michael Whimpey and Peter gave me radar-derived rain rate data for the TWP-ICE period. I have converted the data they gave me to NetCDF format, which may be of use to some people.

5) Surface land type data

I downloaded two surface land type data sets for the Darwin region. These data sets classify 30"x30" pixels into land types (water, savannah, wetlands etc). One data set is derived from AVHRR data, the other newer data set is derived from MODIS data. The data have been converted to NetCDF format.

6) AWS data

I converted data from a number of automatic weather stations in the Darwin region into a common NetCDF format.

7) Model data

I have the following data sets:

a) GASP: The complete set of analyses for 2003-2006 inclusive
(downloaded from SAM)
Domain: Global
Frequency: 12 hourly up to August 2005, 6 hourly afterwards.
Format: NetCDF

b) NCEP reanalysis: The complete set for 2003-2006 inclusive.
Domain: 20S-20N, 80E-280E
Frequency: 6 hourly
Format: NetCDF

c) Operational ECMWF analyses - Data set 1

Times: 15 Jan 2006 - 15 Feb 2006
Domain: 110E-280E, 20S-20N
Frequency: 6 hourly
Format: NetCDF

d) Operational ECMWF analyses - Data set 2

Various ECMWF analyses (including ensemble products) sent directly to us by ECMWF.

Times: TWP-ICE period
Domain: Various regional domains
Frequency: 6 hourly
Format: GRIB 1