

JMA/CRIEPI

# Status of JRA-25 and JCDAS

Kiyotoshi Takahashi<sup>1</sup>, Hirotaka Kamahori<sup>2</sup> and Kazuto <sup>5</sup> 1 Meteorological Research Institu-Japan Meteorological Age







## 1. Current status of JRA-25 and

- · JRA-25, JMA version long-term reans
- · Now analysis is being continued as
- · The data are opened for researcher
- · In December 2006, JMA and CEC
- · According to this contraction, all r
- · Reference: The JRA-25 Reanalysis (Onogi K., et al., 200

- d been compl
- tablishing the contract for a
- ill be provide

Onogi K., et al.: JRA-25: Japanese 25-year re-

shou.go.m) in June 2006.

archers in CEOP.

Q.J.R.M.S., 2005

# 2. Recent results of comparative and des among JRA-25, ERA-40 and NCEP1/2

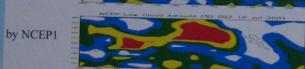
#### Low clouds (Inoue et al.) Expression of low clouds is improved in JRA-25



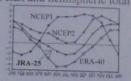
Cloudiness by visible

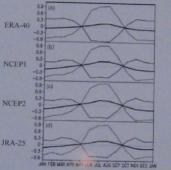






### Mass transp hao et al,2006) JRA-25 shows good consistency in mass flux and hemispheric total mass.

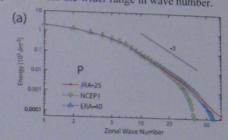


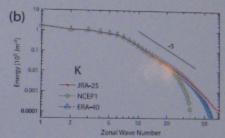


be (thick solid line) for (a) ERA-40, (b) NCEP I

2 and (d) JRA-25 reanalysis. Plotted are

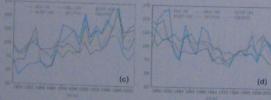
### Energetics (Watarai et al, 2007) JRA-25's spectra follow a power low for the wider range in wave number.



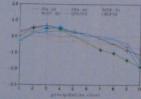


etra of (a) the available potential energy and ergy for 22 winters. Circle, diamond and epresent the JRA-25, NCEP1 and ERA-40.

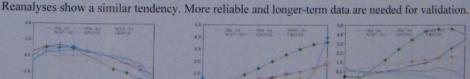
## Intense precipitation variations (Takahashi et al.,2006)



Interannual variations of NPC10 (intence precipitation class) based on pentad over the (c) sea and (d) land. NPC is normalized by climatological average in the class.



Trends of NPC for 1979-2001 based on pentad precipitation in each class over the land over 30S-30N. Closed circle (Plus sign) shows statistical significance at 1(5)% level.



(b) For 1988-2001

## 3. Announcement of the third WCRP International Conference on Reanalysis

The third reanalysis conference will be held at IIS, university of Tokyo for January 28-February 1, 2008 under the coorganization of WCRP, JMA, CRIEPI and University of Tokyo.

Outline of the agenda is as follows.

- -Introduction of reanalysis
- -Applications of reanalysis products
- -Characteristics of reanalysis products Data assimilation techniques for reanalysis

Deadline of submission is July 31, 2007.

The first call for papers will appear on the web pages of the WCRP and JRA-25 soon.

# (a) Trends of NPC over the sea (30S-30N) for 1979-2001

3rd Reanalysis Conf.