March 11, 2003 Tuesday

Welcome
9:15-9:35  Tony Hollingsworth, Arnie Gruber

Introduction
9:35-10:00  Masao Kanamitsu (SIO/UCSD)

Session I-a. Precipitation analysis procedures (GPCP, CMAP)
Chair person: Arnie Gruber
1 10:00-10:40  George Huffman and Bob Adler (GSFC/NASA)
   (2) The Multi-satellite Precipitation Analysis (MPA) in Real and Post-Real Time.

Break (10:40-11:00)

2 11:00-11:25  Pingping Xie, Yelena Yarosh, John Janowiak (NCEP/NOAA), and Phillip A. Arkin (ESSIC/UMD)
   Techniques used to create CMAP and their potential improvements

Session I-b. Precipitation analysis procedures (NWP data assimilation)
Chair person: Peter Bauer
3 11:25-11:50  Philippe Lopez (ECMWF)
   Precipitation assimilation at ECMWF
4 11:50-12:15  Arthur Hou (DAO/NASA/GSFC)
   Precipitation assimilation at NASA Goddard
5 12:15-12:40  Bruce MacPherson (Met Office)
   Precipitation assimilation at the Met Office (UK) and COST-717 collaboration in Europe

Lunch (12:40-1:50)

6 1:50-2:15  Peter Bauer (ECMWF)
   Estimation of rainfall and its error characteristics from satellite observations
7 2:15-2:40  Ko Koizumi (JMA)
   Precipitation assimilation to JMA mesoscale model using a 4D-Var method
8 2:40-3:05  Per Kallberg (ECMWF)
   The precipitation in ERA-40

Session I-c. Precipitation analysis procedures (Other methods)
Chair person: Yukari Takayabu
9 3:05-3:30  Murray Salby (U. Colorado)
   Gridding of Global precipitation from satellite measurements

Break (3:30-4:05)

10 4:05-4:30  Evgeny Yarosh, Wayne Higgins and Wei Shi (NCEP/NOAA)
   High-resolution daily precipitation analysis over U.S. at CPC/NCEP
11 4:30-4:55  Joe Turk (NRL)
   Blending precipitation data sets from multiple sources at short time scales
12 4:55-5:20  E. Ebert (BMO)
   The Australian Operational Daily Rain Gauge Analysis
13 5:20-5:45  Jurgen Grieser (DWD)
   Towards an adaptive method for spatial interpolation of global rain gauge data

5:45-
Cocktails
March 12, 2003 Wednesday

14  9:15-9:40  Xiaogang Gao, Soroosh Sorooshian, and Kuolin Hsu
     Strategy of Error Analysis and Reduction in the PERSIANN System

Session II - Observation characteristics (rain gauge and satellite)
Chair person:  Beth Ebert
15  9:40-10:05  Udo Schneider (GPCC/DWD)
     Operational processing, quality control and analysis of precipitation data at
     GPCC
16  10:05-10:30  Yukari Takayabu (CCSR/Univ. Tokyo) - Characteristics of precipitation as
     observed by TRMM PR

Session III. Validation and Collaboration
Chair person:  Pingping Xie
Break (10:30-10:50)
17  10:50-11:15  Efi Foufoula (Univ. Minn.) - Multisensor-multiscale precipitation datasets and
     model Verification
18  11:15-11:40  A. Ghelli (ECMWF) - The relevance of gridded rainfall observations to verify
     ECMWF precipitation forecasts
19  11:40-12:05  Krajewski (U. Iowa) - Error characteristics of rain gauge and radar estimates
     and validation issues
20  12:05-12:30  Mark Serreze (NSIDC) - Monitoring Precipitation over the Arctic drainage:
     Data requirements, shortcomings and applications of atmospheric reanalysis

Lunch (12:30-1:45)
21  1:45-2:10  V. Levizzani (CNR, Italy) and Arnie Gruber (NESDIS/NOAA) - The
     international Precipitation working Group: Opportunities and perspectives

Discussions
2:15 -5:30  Guidance to Working Group and breakout
- Analysis procedure
- Data assimilation
- Observation error characteristics
5:30-  Informal buffet in the ECMWF Restaurant

March 13, 2003 Thursday

9:15 – 10:45  Working Group discussions continue
10:45– 11:00  Break
11:00 – 1:00  Plenary Session – Report of Working Group and Recommendations