1st NOAA User Workshop -

Global Precipitation Measurement (GPM) Mission

Ralph Ferraro (NESDIS)
David Kitzmiller (NWS)

Co-chairs, NOAA's Steering Group on Precipitation Measurement from Space

18-19 August 2010
College Park, MD

Why GPM for NOAA?

- NOAA and water do mix!
  - Water information supports all of NOAA mission goals
  - To meet these goals, NOAA needs to leverage other assets to bridge current observational gaps
- We have passed the “peak” of LEO MW satellite observations for precipitation
  - DMSP and POES are aging
  - AMSR-E and TRMM well beyond their design lives
- We need to be ready for GPM
  - State of the art algorithms with unprecedented accuracy
  - Quick infusion into operations for data continuity
    - And methods to do this….
  - Develop new applications for radiometric data

Outcome of April 2010 NOAA Science Workshop

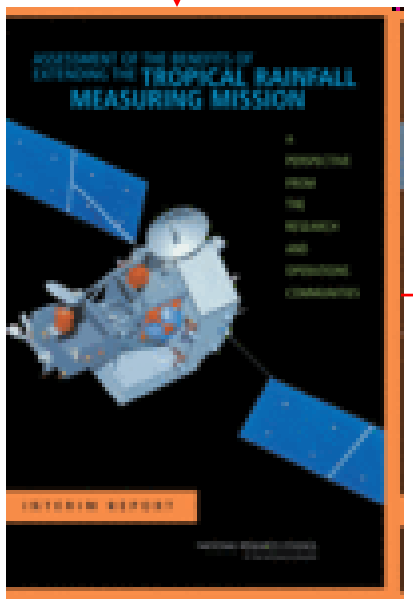
- Out for the 7 top challenges identified for NOAA, two were related to water cycle and GPM:
  - **Improve understanding of the water cycle** at global to local scales to improve our ability to forecast weather, climate, water resources and ecosystem health
  - **Sustain and enhance atmosphere-ocean-land-biology and human observing systems**, and their long-term data sets, and develop and transition new observing technologies

Chronology - NOAA and GPM

Nov 1997 – TRMM Launch

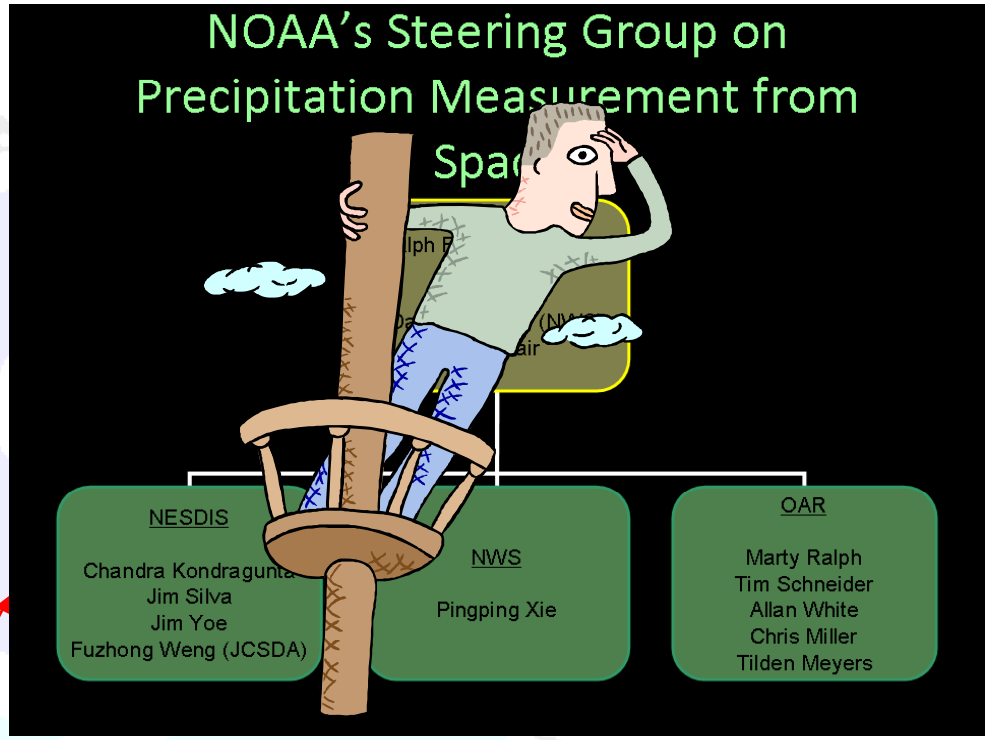
TRMM data used at NOAA

Jul 2004 – TRMM may get turned off



2006

2007



NOAA's Participation on PMM Science Team

Engagement with NASA – R2O, GPM reviews, GPM GV, etc.

Interface to NOAA Management

Planning and Budgeting

Workshop Agenda

Wed Aug. 18

08/18/10	Topic	Speaker(s)	Organization
800 - 830 am	Registration/Sign In		
	SESSION 1 - OVERVIEW (Chair - Ferraro)		
830 - 840 am	Introductions, Welcome, Logistics, Goals, Format, etc.	R. Ferraro; A. Busalacchi; D. Kitzmiller	NESDIS & NWS
840 - 900 am	Charge to the Workshop - Importance of GPM to NOAA Users	M. Kicza	NESDIS
900 - 915 am	GPM Program Overview	R. Kakar (Phone)	NASA
915 - 930 am	GPM Project Status - Instuments	A. Azarbarzin	NASA
930 - 945 am	GPM Project Status - Algorithms and Partnerships	A. Hou	NASA
945 - 1000 am	GPM Project Status - Precipitation Processing Systems	E. Stocker	NASA
1000 - 1030 am	**COFFEE BREAK + GROUP PHOTO**		
	SESSION 2a - NOAA PERSPECTIVE (Chair - Kitzmiller)		
1030 - 1045 am	GPM's Imporatance to CPO	D. Goodrich	OAR
1045 - 1100 am	GPM Mission - National Weather Service Perspective	D. Berchoff	NWS
1100 - 1110 am	GPM as a Research to Operations Transition Candidate	J. Pereira	NESDIS
1110 - 1120 am	GPM's Importance to GOES-R Program	S. Goodman	NESDIS
1120 - 1130 am	Vision of New NOAA Products in GPM Era	A. Powell	NESDIS
1130 - 1140 am	NDE's contribution to GPM	J. Silva	NESDIS
1140 - 1150 am	Changes to NOAA's Program Planning - SEE	S. Pitter	PPI
1200 - 100 pm	**LUNCH**		
	SESSION 2b - NOAA PERSPECTIVE (Chair - Kitzmiller)		
100 - 110 pm	GSICS and GPM Coordination	F. Weng	NESDIS
110 - 120 pm	NOAA's CDR Program and Linkage to GPM	B. Nelson	NESDIS
120 - 130 pm	Synergy between GPM and HMT	T. Schneider	OAR
	SESSION 3 - INTEREST/NEEDS FROM NOAA STAKEHOLDERS (Chair - Schneider)		
130 - 140 pm	NWS/NCEP/TPC	J. Bevin (Phone)	NWS
140 - 150 pm	NWS/NCEP/CPC	P. Xie	NWS
150 - 200 pm	NWS/NCEP/EMC	J. Meng/M .Ek	NWS
200 - 210 pm	NWS/NCEP/EMC	G. White	NWS
210 - 220 pm	NWS/NCEP/HPC	M. Bodner	NWS
220 - 230 pm	NWS/OHD	D. Cline	NWS
230 - 240 pm	JCSDA	L. Riishojgaard/M. Kim	JCSDA
240 - 300 pm	**COFFEE BREAK**		
300 - 310 pm	NESDIS/SAB	S. Kusselson	NESDIS
310 - 320 pm	NESDIS/NCDC	B. Nelson	NESDIS
320 - 330 pm	NOAA/Weather and Water Program	B. Sjoberg	NWS
330 - 340 pm	NOAA/Aviation Program	C. Miner	NWS
340 - 350 pm	OAR/ESRL/GSD - Assimilation	Z. Toth (Phone)	OAR
400 - 410 pm	OAR/NSSL	J. Gourley (Phone)	OAR
410 - 420 pm	OAR/ESRL - NIDIS	C. McNutt	OAR
420 - 430 pm	OAR/ESRL/GSD - Moisture Observations	S. Gutman (Phone)	OAR
430 - 450 pm	NOAA/RFC's and Regional Office's	D. Kitzmiller	NWS
450 - 515 pm	Day 1 Wrap up and Plans for Day 2, including formation of working groups		
515 pm	**ADJORN FOR THE DAY**		
600 pm	**Group Dinner at Hard Times Café, College Park, MD**		

Workshop Agenda

Thurs Aug. 19

08/19/10	Topic	Speaker
	SESSION 4 - PLENARY AND CHARGE TO WORKING GROUPS	
830 - 900 am	Working Groups - Planning	Ferraro/Kitzmiller
900 - 1030 am	Working Groups Meet	
1030 - 1045	**COFFEE BREAK**	
1045 - 1200 pm	Workging Groups Meet	
1200 pm - 100 pm	**WORKING LUNCH - WG Chairs Prepare Reports**	
	SESSION 5 - PLENARY - WORKING GROUP REPORTS	
100 - 200 pm	WORKING GROUP REPORTS (15 min each)	
200 - 300 pm	FINAL PLENARY AND ASSIGNED ACTIONS	
300 pm	WORKSHOP ENDS	
	Working Groups	**WG Lead**
	Observational Needs & Gaps	**Chandra Kondragunta**
	Accelerating Use at NOAA	**Tim Schneider**
	Applications & Other needs (e.g, radiances, climate, NOAA Unique Products)	**Fuzhong Weng**
	To faciliate WG discussions, each WG lead will develop and send out prior to workshop: 1. List of key questions to be answered 2. Expected outcomes 3. Linkages to other WG	

Goals and Expectations

- We need your participation and help!
- NESDIS – serves NOAA based on observational **needs**; we need to hear from you!
- A report that thoroughly:
  - Identifies observational needs and gaps
  - Defines path for accelerated use of GPM data at NOAA
  - Identifies new applications and other needs of GPM data at NOAA
  - Provides achievable recommendations and specific actions
    - Also links to NOAA budget cycle
- Budget/program follow-through

Working Groups

1. Observational needs and gaps –
   Chandra Kondragunta

2. Accelerating use at NOAA –
   Tim Schneider

3. Applications and other needs –
   Fuzhong Weng

Logistics

- Loading your presentations
- Restrooms
- Food & Beverages
- Wireless – “ESSIC” open network
- Helpful people – who to ask
- Break Out rooms for the Working Groups
- Around the room introductions
- Group Photo
- Group Dinner – 6 pm Hard Times Café, College Park (US 1 and I-495)
- August 20 – PMM Project Review