GPM

Report on Partnership Progress

1. Stimulate Existing & Initiate New Partnerships; Assess Partner Readiness & Identify Assets

a. scientist engagement

various space agencies, variety of national & international government research agencies, many national & international academic institutions

Immediate Follow Up Actions: Seek some type of LOA arrangements with NOAA, NRL, & NCAR

b. space hardware & associated data streams

TRMM, AQUA, & ADEOS II represent our initial assets in preparation for GPM era

NASA will partner with NASDA for GPM Core satellite

NPOESS/IPO will partner with 2 SMMIS's & 3 CMIS's

NASDA will provide GCOM-B1

NASA will provide 1 or 2 CMR's

ESA (ASI, CNES) seeking to partner with 1 or 2 CMR's

ISRO/CNES willing to partner with Megha Tropiques

Interest within Argentinean & Brazilian space agencies to examine possible partnership arrangement for 1 CMR

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Immediate Follow Up Actions: Secure LOA /MOU with NASDA; Explore LOA with NPOESS/IPO; Continue collaboration with EGPM group through EEOP proposal process; Information exchange meetings with ASI, CNES, & EC; Continue discussions with ISRO/CNES on Megha Tropiques; Continue discussions with Argentinean & Brazilian space agencies concerning constellation spacecraft

c. high quality validation supersites & associated data streams

NASA is currently carrying budget support for 2 validation supersites

Australia, Brazil, Canada, England, Italy, Japan, Spain have all indicated interest in supporting validation supersites

Immediate Follow Up Actions: Pursue agreements with interested international agencies

d. high quality regional raingage networks & associated data streams

U.S. & Japan will provide such datasets

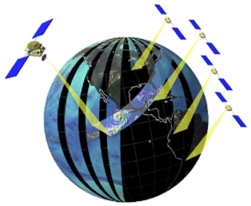
South Korea/KMA has indicated strong interest in developing partnership

Immediate FollowUp Actions: Pursue MOU with KMA

e. additional precipitation & ancillary data streams

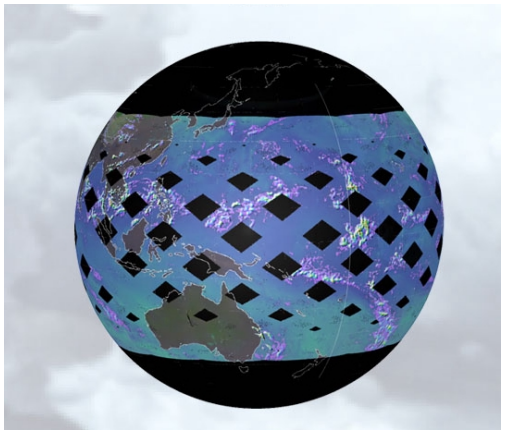
BALTEX . . .

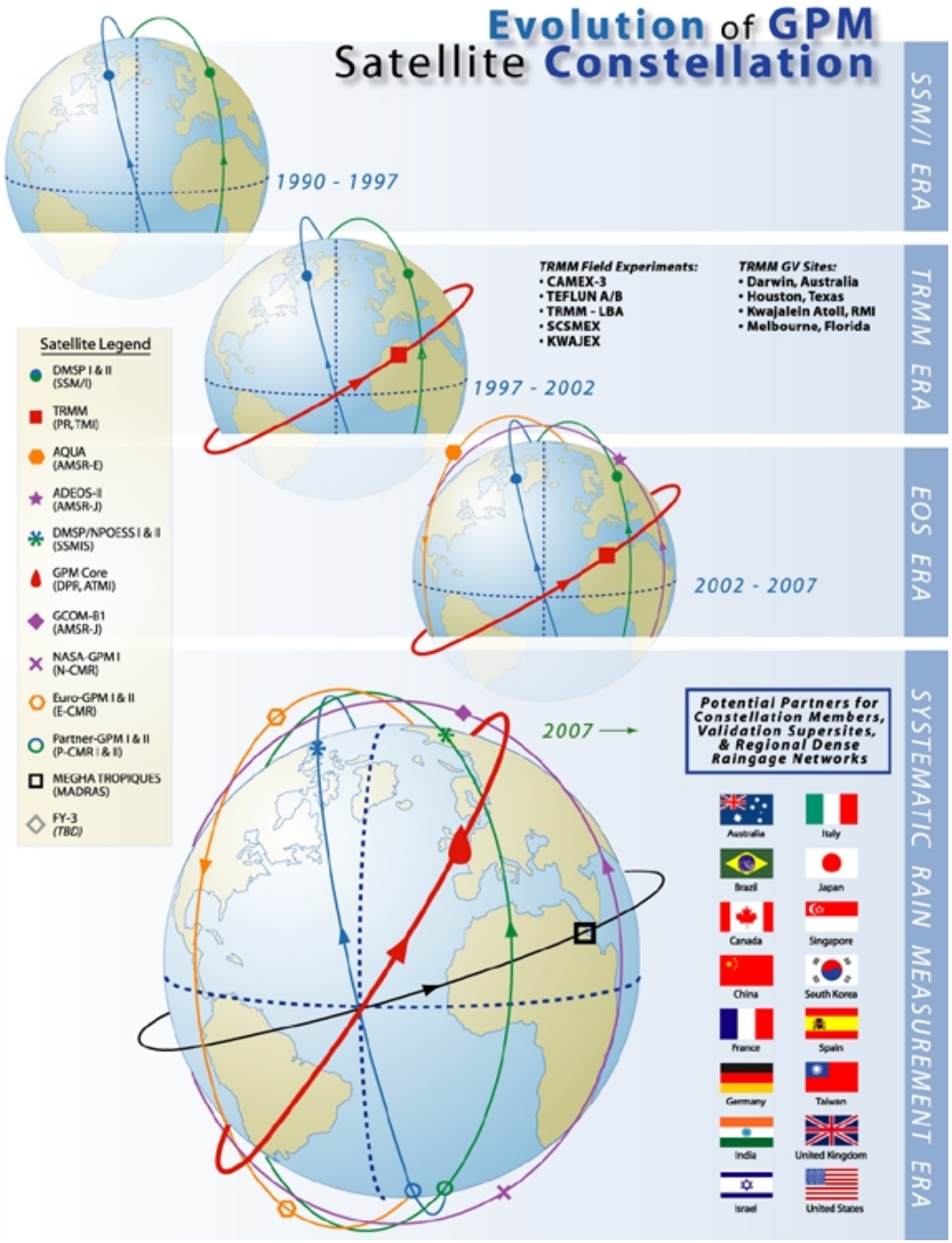
Immediate Follow Up Actions: examine participant inputs to determine additional datastreams



GPM

TRMM 1-day coverage





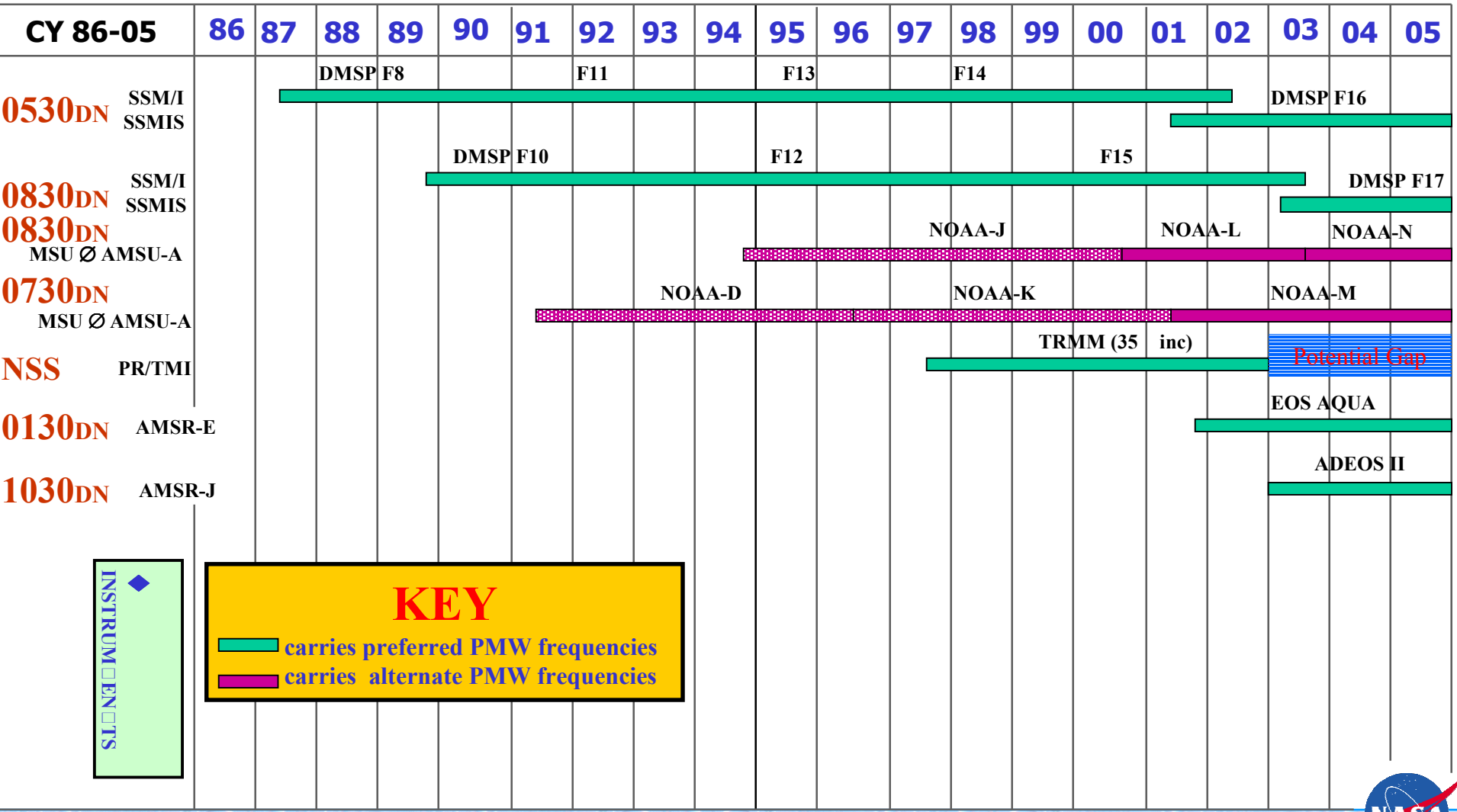
Near Term Satellite Data Streams for TRMM/EOS Eras

from Passive Microwave Radiometers & Precipitation Radars

[at left are actual (bold) nodal crossing times (DN) or non-sun-synch labels]

GPM

♦ Continuous Geosynchronous Satellite Coverage by GOES E/W, METEOSAT, & GMS ∅

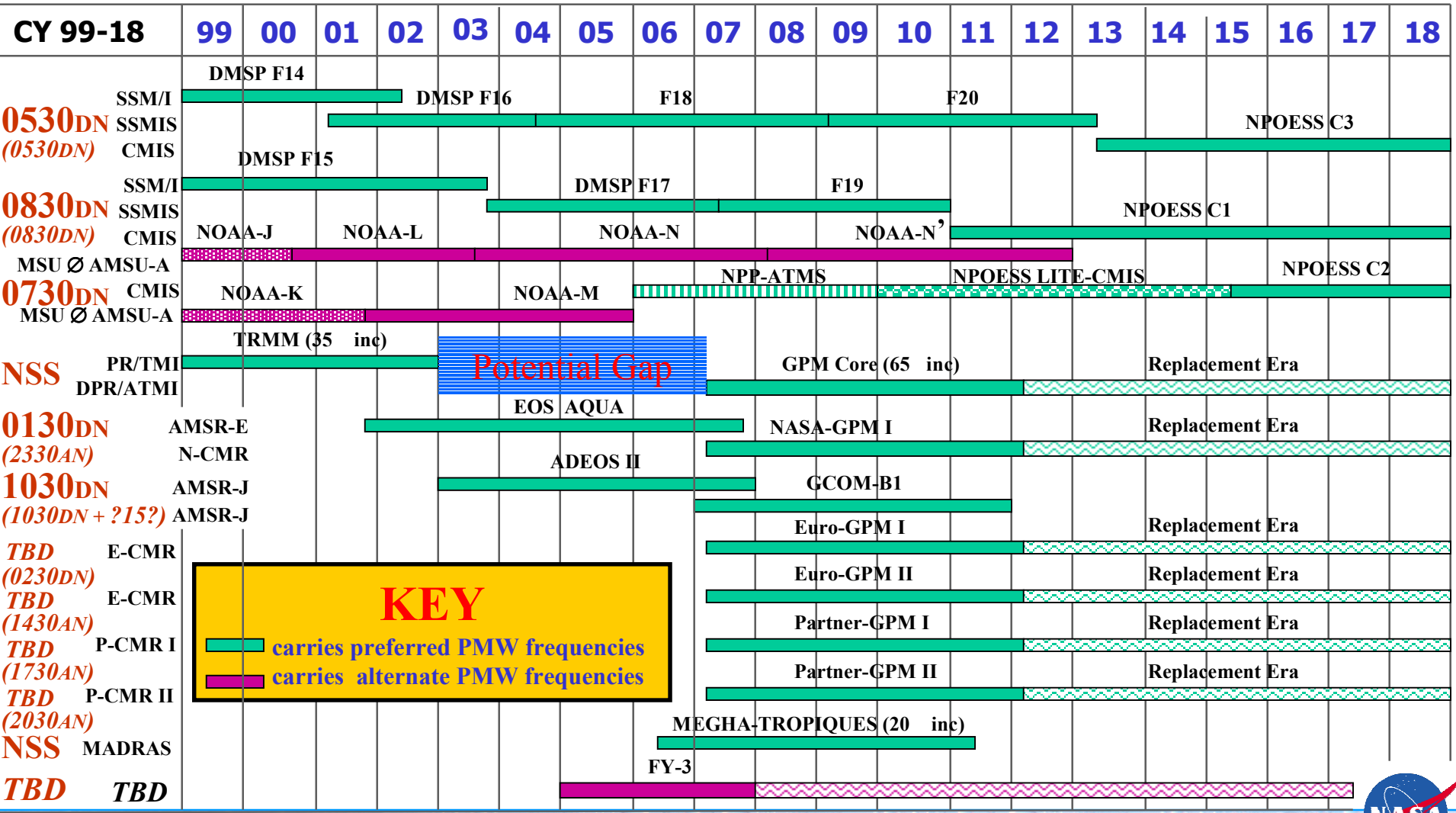


Projected Satellite Data Streams for GPM Era
from Passive Microwave Radiometers & Precipitation Radars

[at left are either actual (bold) or orthodox (paren) nodal crossing times (DN or AN) or non-sun-synch labels]

GPM

♦ Continuous Geosynchronous Satellite Coverage by GOES E/W, METEOSAT/MSG, & GMS ∅



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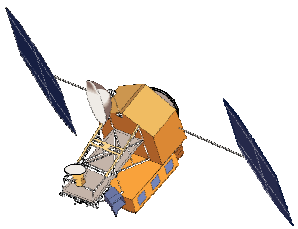
Supersite Products & Customers



1. **Regional Bias Uncertainties (synthesis/continuous):**

   climate trend detection specialists

2. **Regional Error Variances (synthesis/continuous):**

   weather/hydrology forecast specialists

   model data assimilation specialists

   rain data user specialists

3. **Algorithm Calibration (synthesis/continuous):**

   satellite algorithm specialists

4. **Rain GV Products (datasets/delayed):**

   rain data validation researchers