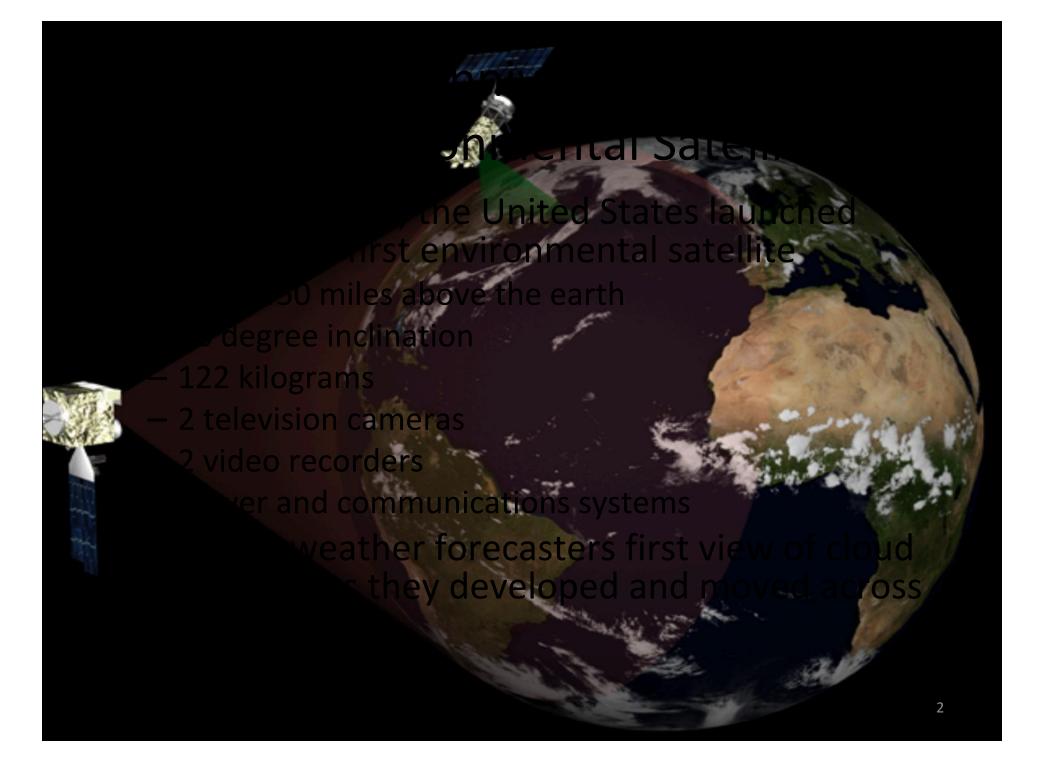
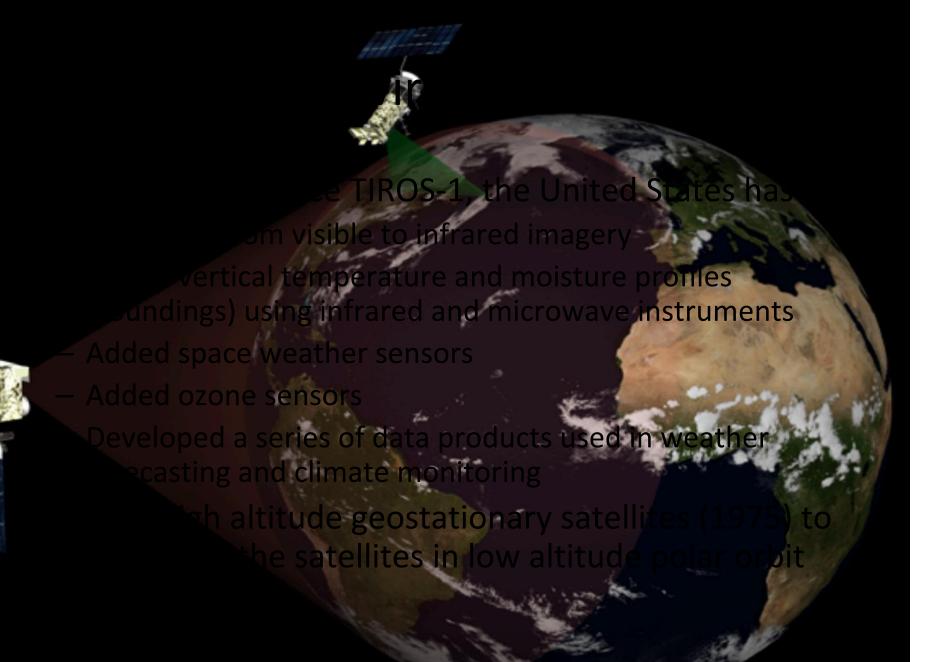
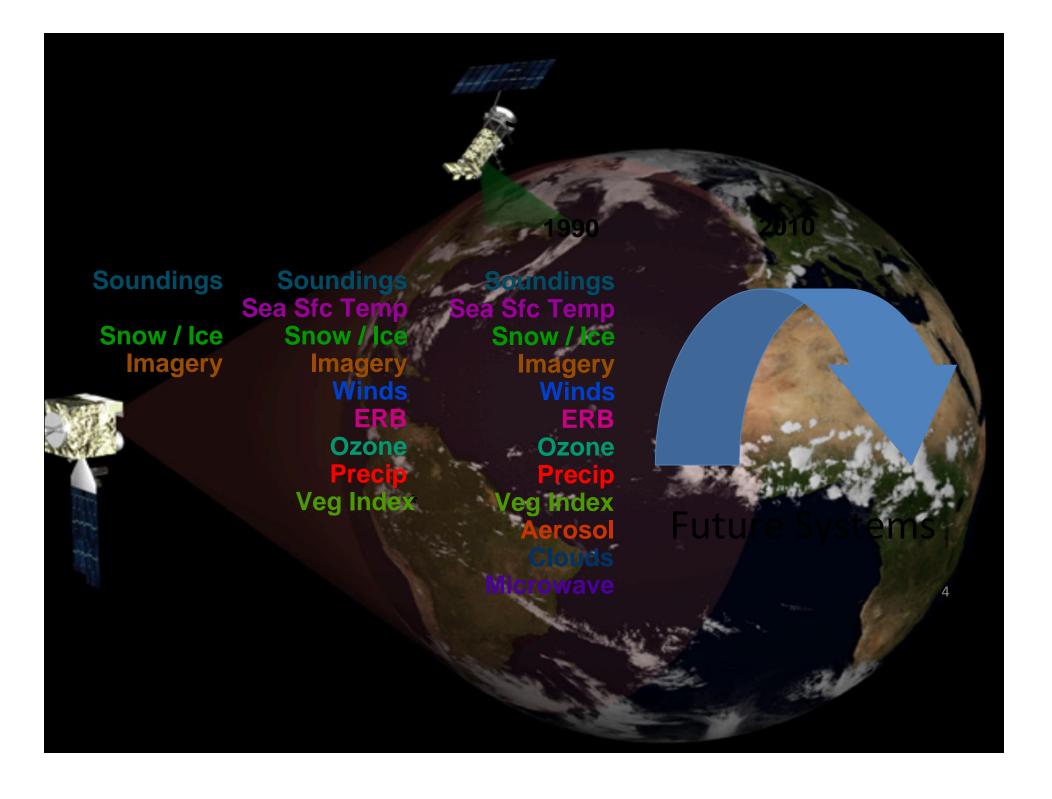
Committee on the Peaceful Uses of Outer Space Science and Technology Sub-committee Forty-seventh session February 17, 2010 Vienna, Austria

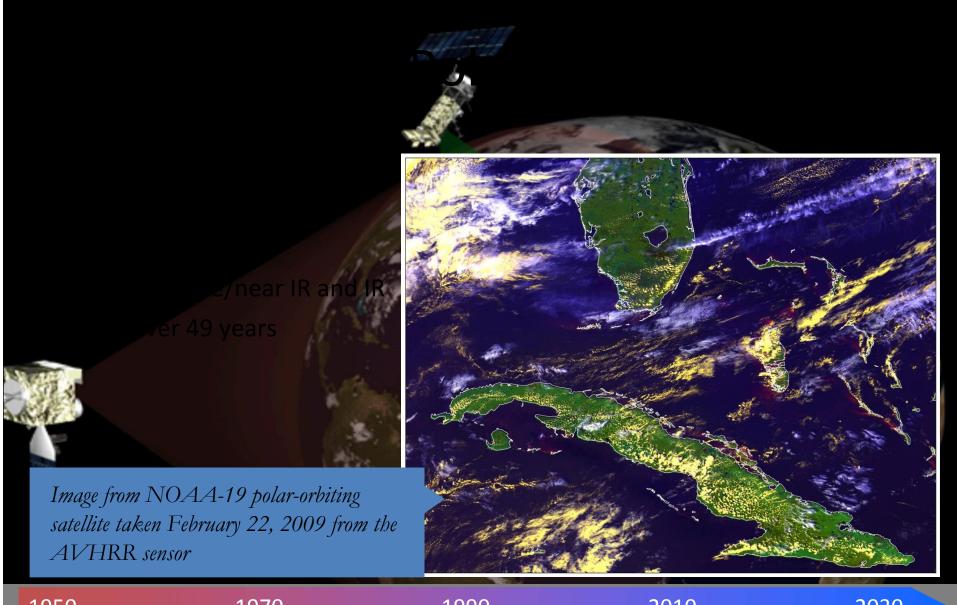
International Cooperation in Operational Environmental Satellites: The U.S. Experience

Charles Baker
Deputy Assistant Administrator
for Satellite and Information Services
U.S. National Oceanic and Atmospheric Administration

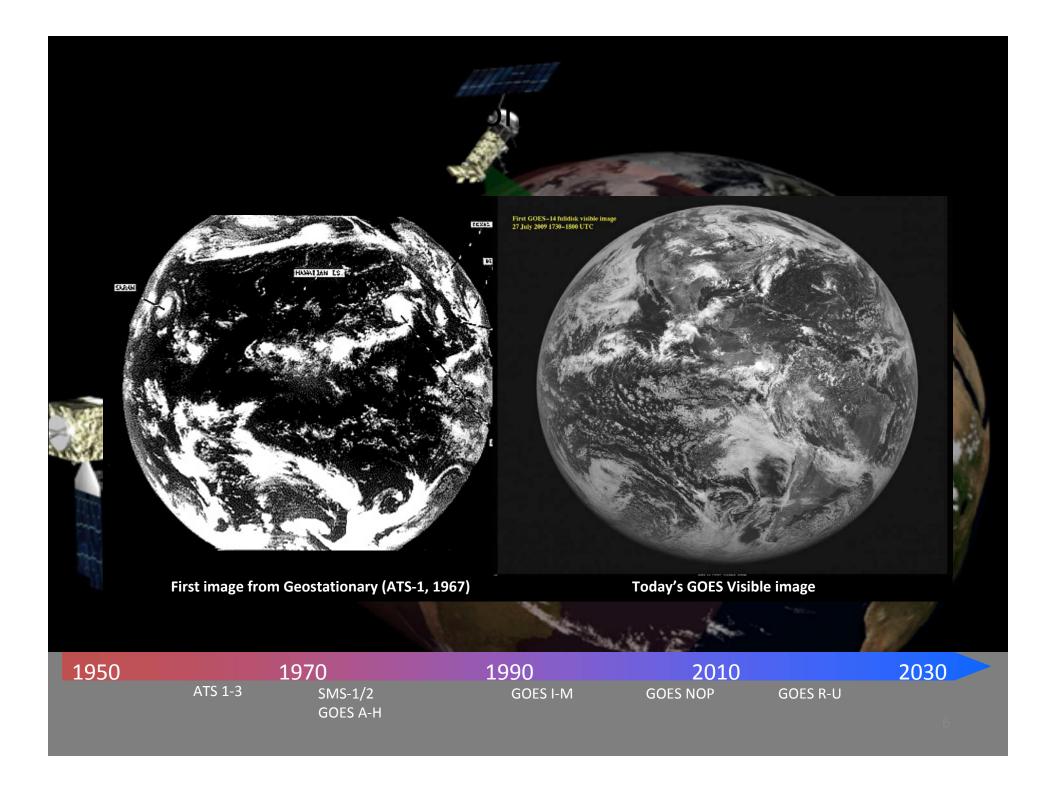


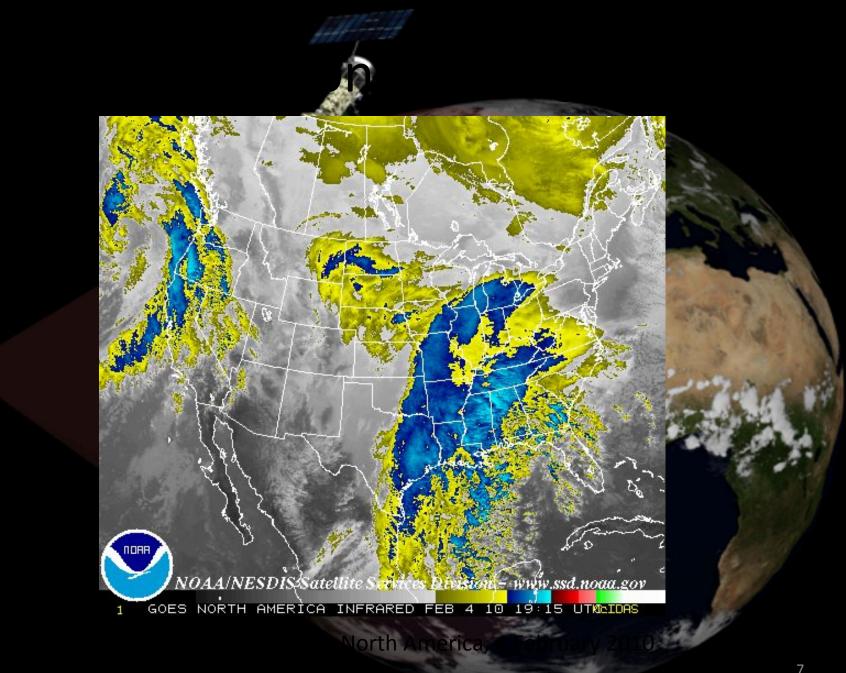


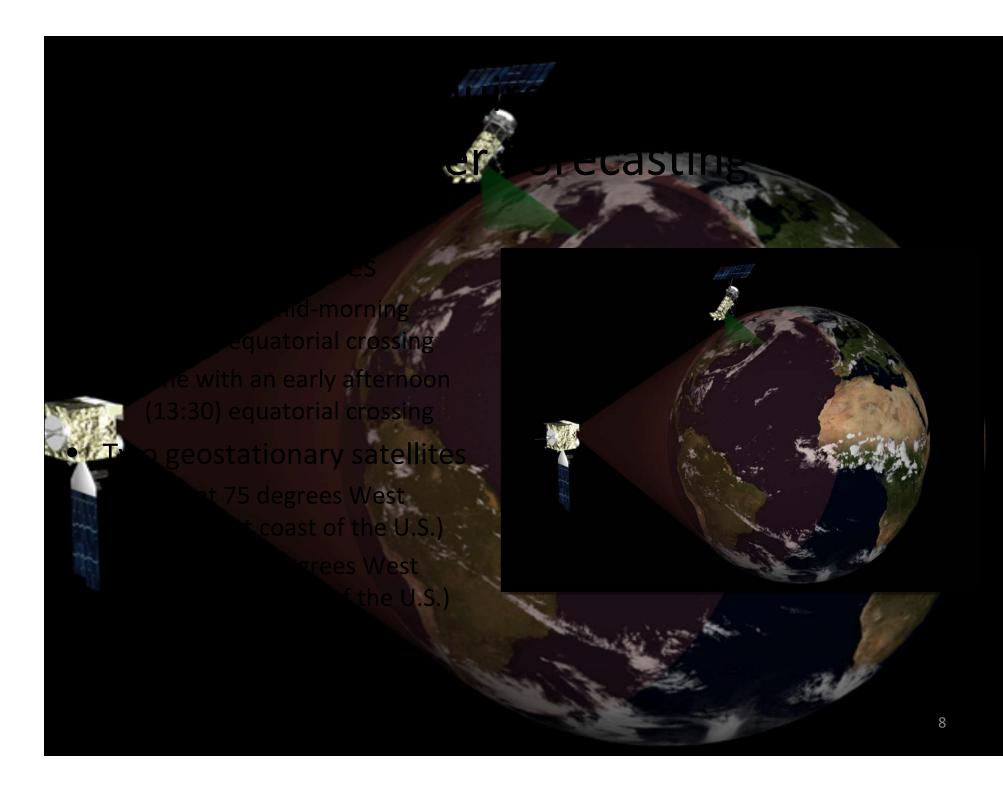




1950	1970		1990	2010	2030
	TIROS-1-10 ESSA 1-9	NOAA 1-5 TIROS-N	NOAA 6-19	NPP NPOESS	
	NIMBUS	DMSP			









e observations is critical is an important input to numerical weather models products are used by local weather forecasters ellite data supports watches and warnings of severe weather

continuity is threatened by

- Launch failures
- On-orbit failures prior to the completion of satellite design life
 Launch delays caused by satellite development problems
 rapidly increasing cost of satellite development
- International collaboration has proven to be a means of mitigating the threats to satellite continuity



In 1986, lightning struck the GOES-G laund vehicle, destroying the satellite

GOES-I, the first of a new generation of satellity had major development problems causing a 5 ye schedule slip

- These events caused the GOES constellation to drop to a single satellite on orbit in 1990
- International collaboration provided the solution
- From 1991 to 1995, the European Meteosat-3 was operated, first at 50 degrees West, then at 75 degrees West, in support of the U.S.
- Data from Meteosat-3 was especially important forecasting the landfall and intensity of Hurri Andrew in 1992



ement for 15-5 satellite, had

99.

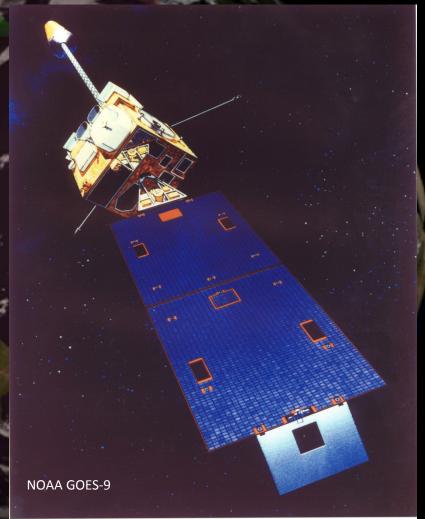
International collaboration provided the solution

for GMS-5

e U.S. moved GOES-9 westward to

ed MTSAT-1R in February

erate at 155° East



wing in cost and complexit

ormance improvements, satellite costs have grown recent years

mand higher resolutions and new capabilities

the U.S. and Europe want data from polar satellites in ad-morning and early afternoon orbits

 Yet the cost of maintaining satellite continuity in two polar orbits is more than either the U.S. or Europe wants to shoulder on its own

International collaboration provides the solution

e has responsibility for the mid-morning orbit
as taken responsibility for the early afternoon orbit
ome of the other's instruments on its satellites
exchange has been happening since 2007 when the

