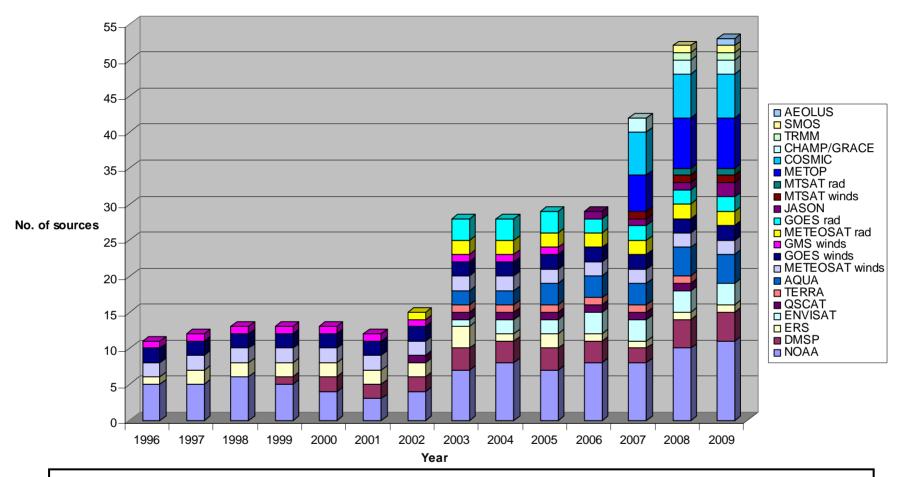
Satellite observing system



Use data from over 40 different satellite instruments, expected to increase to ~50 until 2009.



Highlights

Some recent updates:

- ♦ METOP data assimilated since 11 Jan 2007 (AMSU-A/MHS), 19 March 2007(HIRS), 7 June 2007 (IASI, ASCAT). GRAS, GOME-2 monitored.
- ♦ GPS RO: rising occultations from COSMIC (12 Dec 2006), setting RO (6 Nov 2007); GRAS data under assessment, CHAMP/GRACE as back-up.
- ♦ Replacement of Meteosat 5+8 with 7+9, addition of MTSAT, enhanced ozone monitoring/assimilation (Envisat, METOP, AURA).

Key research items:

- ♦ 4D-Var microwave radiance assimilation in presence of clouds/rain.
- Evaluation of cloud-affected radiances for most IR-instruments.
- Improved usage of advanced sounder data (e.g. water vapour).
- Improved usage of data over land.
- Improved radiative transfer.

