



**GTS** = Global Telecommunications System

World wide data gathers in GTS

Sends data to NWSTG/TOC or the “Gateway”

**NWSTG/TOC** = NWS Telecommunication Gateway/Telecommunication Operations Center

Intercepts GTS messages

Sends data to **NCO** via TNC (TOC to NCEP Communications) line and via LDM (Local Data Manager)

**GSD** = NOAA/ESRL/GSD

Provide Mesonet data to **NCO** via LDM several times hourly

SIB converts data from netCDF to WMO BUFR

**Radar/ROC** = NOAA Radar Operations Center

For more information on how Radar data is processed visit:

[http://www.emc.ncep.noaa.gov/mmb/data\\_processing/data\\_processing/](http://www.emc.ncep.noaa.gov/mmb/data_processing/data_processing/)

**NESDIS** = National Environmental Satellite, Data, and Information Service Servers:

dds/ddstest – serves up POES data (operational/test)

satepsdist1e/satepsanone – serves up GOES data, winds, radiances, SST, etc ... (operational/test)

**EMC** runs SMS jobs to query the NESDIS servers for new data

**NCO** = NCEP Central Operations

**PMB** = Production Management Branch, 2 Groups we are concerned with:

Data Flow - pull data from the outside (Paula Freeman, Patrick O'Reilly)

Interacts w/ the "Gateway", LDM, ROC, etc ...

Data retrieval occurs continuously

Gather all the data then pass it off to SIB for decoding

SPA – make sure code is running 24/7, implement changes (Chris McGee)

**SIB** = Systems Integration Branch, 1 Group we are concerned with:

Decoders - decodes data from native format to NCEP BUFR (Jeff Ator, Michelle Mainelli)

Decoders include:

ACARS, Aircraft, Aviation Weather (METAR), Bathymetry, Drifting Buoy, Land Sfc, Marine Sfc, NeXRAD Wind, Profiler, Rawinsonde, Satellite Wind, Supplementary Climatology, Tide Gauge

Decoding operates continuously on 2 dedicated nodes on mist and 2 dedicated nodes on dew.

NCEP BUFR files stored in the tanks (/dcom(dev)/us007003)

"tranjb" is the process that takes a single BUFR file and appends it to the appropriate tank

**EMC** = Environmental Modeling Center

Runs SMS jobs to periodically query the NESDIS servers for new data  
Compares latest available data against a local history file to determine if data is new.

Retrieves new data via FTP

These jobs are called “Katz” scripts or satellite ingest scripts

Convert native data to NCEP BUFR and stores them in the tanks

“tranjb” is the process that takes a single BUFR file and appends it to the appropriate tank

Processing runs on both mist and dew (at discrete time steps defined for each data type; not continuous)