

Datastream	Size/Day	Size/Month	Freq <sup>1</sup>	Effort <sup>2</sup>	Description	Notes [as of 2010-05-12]
<b>Derived Quantities and Models</b>						
<b>NAC 12 ETA</b> alleta12X1	Raw: 2 GB	42 GB	Low	Low	Eta GRIB model data on a 12 km grid.	Just ftp, no ingest. Ingest desired for NSA.
<b>SGP RUC 13km and 20km</b> ruc13isob,ruc20isob ruc13hybr, ruc20hybr	Raw: 0.7 MB Ing: 2 GB	raw: 60 GB Ing: 6 GB	Low	Med-High	The Rapid Update Cycle (RUC) model on a 20-km grid, Isobaric and hybrid Data.	New version of RUC , RRWF, will be available in June 2010.
<b>ECMWF DIAG</b> <b>(NSA,SGP,GRW,MAN,NAU,DAR)</b> ecmwfX1.00 ecmwfflxX1.c1 ecmwfsfcX1.c1 ecmwfsfcmIX1.c1 ecmwfsfc1IX1.c1 ecmwftenX1.c1 ecmwfvarX1.c1 ecmwfsfceX1.c1	Raw: 30 MB Ing:	300 MB 50 MB	Med	Med	These files contain diagnostic data derived from ECMWF model runs. <b>These data can only be distributed to ARM Scientists.</b>	Domain Changes where the new AMF comes online.
<b>ECMWF GRIB</b> <b>(DAR,MAN,NAU)</b> ecmwfupaX1.00.c1 ecmwfsuppX1.00.c1 ecmwfsurfX1.00.c1		raw:5 G Ing: 1.5 G	Low-Med	Low_med	gridded operational analysis product from ECMWF Operational Analysis and Forecasting System  <b>These data can only be distributed to ARM Scientists.</b>	Variable changes. Additional (temporary?) domain over Indian Ocean?
<b>MOLTS</b> <b>(NSA,SGP)</b> moltsedassfcclass1X1.a1 moltsedassndclass1X1.a1 *moltsedaclass1X1.00	Ing: 9 MB	276 MB	Med	Med	The Model Output Location Time Series (MOLTS) Data are provided by NCEP in BUFR format.	Occasionally need to add stations
<b>NCEPGFS</b> <b>(NSA,SGP,DAR,MAN,NAU,GRW)</b> ncepgfsX1.00 ncepgfssfcX1.00.c1 ncepgfssprofX1.00.c1 ncepgfszprofX1.00.c1 ncepgfsflxX1.00.c1 ncepgfspprofX1.00.c1		150Mb			NCEP NWP forecasts (global spectral model) from the forecasts and analysis output.	Needs change for each deployment of AMF1/AMF2
<b>ISSRWP</b>						Retired, archival data status?
<b>ISSONDE</b>						retired
<b>MAPS</b>						retired
<b>Surface Meteorology</b>						
<b>SGPABRFC</b> abrfpcprecipX1.c1	2.5 MB	80 MB	Low	Low	Arkansas-red River Forecast Center (ABRFC) precipitation products on a 4 km grid.	No Ingest, Current trouble w/archive Data
<b>SGPKSUMESO</b> sgp60ksumesoX1.b1	Raw: Ing:	1.3 MB 0.65 MB	Low	Low	This data stream contains surface meteorology information from 16 stations in Kansas. Data provided and quality assured by the High Plains Climate Center.	Automated, easy ingest. Current trouble: getting M flags in data, need to ask to get data resent.
<b>SGP OKMESO</b> sgpokmX1.00 sgp05okmX1.a1,.b1 sgp15okmX1.a1,.b1 sgp30okmX1.b1	Raw: Ing:	215 MB 124 MB	Med	Med	Surface meteorology measurements from stations in Oklahoma. <b>These data can only be distributed to ARM Scientists.</b>	Occasionally need to add stations. Partially run by hand monthly
<b>NACNCDC Surf</b> nac60ncdesurfX1.00, sgp60ncdesurfX1.a1	NAC: SGP:	.3 MB 48 MB	Low	Med	NCDC hourly surface meteorology measurements.	Partially run by hand. <b>IRREGULAR</b>
<b>SGP SURFACE OBS</b> sgpsurflogC1.a1	Raw: Ing:	20 KB 124 MB			Surface conditions observations made by site technicians during maintenance visits to Extended Facilities.	<b>retired</b>

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<b>SGP USDA</b> sgpusdaradX1.00 sgpusdauvmfrsrX1.00	Raw: 318 KB	9.8 MB	Low	Low	Data from USDA UV-B Radiation Monitoring Network site at the SGP CF. Contains MFRSR, temperature, humidity, UVB measurements and UV-MFRSR data	No ingest
<b>NSANOAACRN</b> 60noaacrnX1.00.b1		0.5Mb	Low	Low	The data is from The U.S. Climate Reference Network (USCRN) climate stations	
<b>Atmospheric Profiling</b>						
<b>ACARS</b> (SGP,NSA,GEC) acarsX1.a1	2.4 MB	74.4 GB	Low	Low	Aircraft data including information on position, winds and temperature	retired
<b>NWS UPA</b> (NSA,SGP) 06snwsupaddcX1.00 01snwsupaounX1.00 01snwsupatopX1.00		31 MB	Low	Low	These high resolution (6 sec and 1 sec) quality assured data are provided by Steve William's group at NCAR.	Done partly by hand <b>Irregular</b>
<b>SuomiNet</b> (SGP,GEC) 30suomigpsX1.c1		30Mb	Low	Low-Med	UCAR's SuomiNet GPS receiving station network providing realtime atmospheric precipitable water vapor measurements and other meteorological information.	
<b>SGP 30 WPDN GPS</b> sgp30wpdngpsX1.c1	Raw: Ing: 11 MB	38 MB	Med	Low	FSL provides 30 minute averages of precipitable water vapor derived from Global Positioning Systems (GPS) .	
<b>SGP WPDN</b> sgp06fslwpdnmetX1.00,.b1 sgp60fslwpdnmetX1.00,.b1 sgp06fslwpdnrassX1.00,.b1 sgp60fslwpdnrassX1.00,.b1		1.7Mb	low	ow-med	Surface meteorology measurements at a subset of Wind Profiler Demonstration Network stations.	Infreq. Changes, but BCR out now for new ingest
<b>Satellite Observations</b>						
<b>AVHRR</b> avhrr12X1.a1 avhrr12radX1.a1 avhrr16X1.a1 avhrr16radX1.a1					Measurements from Advanced Very High Resolution Radiometer (AVHRR) on the NOAA polar orbiting satellites taken over the Southern Great Plains CART site	retired
<b>SGPGOES</b> goes13X1.a1, goes13visX1.a1	Raw: Ing: 9 GB	29 GB	Low	Easy	GOES-13 satellite images taken over the SGP Site	Satellite changes once in a while, requires ingest check and update to composite QL.
<b>SGP Landsat images</b> sgplandsatbiiX1.00 ii=1,2,3,4,5,6,7		128 GB	Low	Med	These Landsat 5 TM scenes were obtained from Bob Cahalan of NASA/GSFC. They are raw binary data files for each channel and a header file.	<b>retired</b>
<b>GECSSMI</b> ssminnX1.00, ssminnfullX1.a1.gif ssminnsmallX1.a1.gif ssmimonthlymeanX1.00 ssminnX1.c1 where nn=10, 11, 13, 14, 15		270 MB	Med	Med	Global data derived from the Special Sensor Microwave/Imager (SSM/I) satellites, at 0.25 deg resolution, of derived quantities (wind speed, water vapor, liquid water and rain rate).	Pick up every 6 month, Part. Manual. Recent issue with F14 data required rearchive. <b>Irregular</b>
<b>GECOMI</b> omiX1.a1, omiaerosolindexX1.00 omiozoneX1.00,omireflX1.00	Raw: Ing: 19 MB	15 MB	Low	Low	Global data derived from the Total Ozone Mapping Spectrometer (TOMS) instrument on the Earth Probe satellite, consisting of daily values of aerosol index, ozone and reflectivity remapped into a regular 1x1.25 deg grid.	Needed by various VAPs for radiative closure.
<b>TWPMTSAT</b> mtsatsX1.00,a1		70G	low	low	he Multi-functional Transport Satellite (MTSAT) series fulfills two functions: a meteorological function by the Japan Meteorological Agency	Japan will launch MTSAT2 this year.
<b>VISST</b> (SGP,DAR,MAN,NAU) visstgridX1.00.c1 visstpxX1.00.c1		9G	low-med	low-med	These data streams contain satellite based retrievals of cloud and radiation properties by Pat Minnis' group at NASA/Langley using the VISST (Visible Infrared Solar-Infrared Split Window Technique) algorithm.	Manually process on monthly basis. Recently expanded to include all GOES9 data for the TWP and some MTSAT data
<b>TWPMTI</b>					Multi spectral Thermal Images	retired
<b>SGPGOESWATER</b>					Water Profile from GOES satellite	retired
<b>TWPGMS</b>					Geostationary Meteorological Satellite	retired
<b>Radiometric</b>						
<b>NSANOAAARAD</b> noaaradX1.00.b1	:	6 MB 6MB	low	low	surface radiation data	Station changes

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<b>SGPUSDARAD</b> usdaradX1.00 usdaradauxX1.00 usdauvmfrsrX1.00 usdauvmfrsrauxX1.00	Ing:	16MB	low	low	Information on the geographical distribution and temporal trends of UVB (ultraviolet -B) radiation in the United States.	No ingest
<b>TWPTAO</b>					Tropical Atmosphere Ocean from Buoys	retired
<b>Cloud Properties</b>						
<b>CPOLDAR</b>					C-Band Polarimetric Radar	No ingest, some product (3D clouds?) used by Mike Jensen and others directly.
<b>ARM Instrument Related Products</b>						
<b>AOS</b> <b>(SGP,NSA)</b> aosC1.b1 aosavgC1.b1 aosfirthC1.b1		30 Mb	med	med	Edited AOS(Aerosol Observing System) data.	Data comes on a quarter basis and are processed manually, then passed on to Annette Koontz's ingest
<b>SGPIAP</b> iapC1.00,b1 iapavgC1.00.b1		12 Mb	med	med	In-situ Aerosol Profiles from GMD.	retired
<b>CSPHOT</b> <b>(SGP,NSA,DAR,NAU,GRW)</b> csphotalmX1.00, .a1 csphotoatpwX1.00, .a1 csphotppX1.00, .a1 csphotsizeX1.00, .a1 csphotfiltX1.a1	Raw Ing:	700 KB 260 KB	Low	Low	Cimel Sunphotometer (CSPHOT) data. The Cimel has been permanently installed at the SGP CART site since March 1998 but was also in place for earlier IOPs.	Filtered Data not predictable. Frequent changes and updates.  Filtered Data is <b>IRREGULAR</b>
<b>SGPTDMA</b> tdmahygC1.00.b1 tdmasizeC1.00.b1	Raw: Ing:	1 Mb	Med	Low-Med	Tandem Differential Mobility Analyzer (TDMA) size distributions and hygroscopic growth factor data	Comes irregularly. Manually process.  Includes Mentor added value.

## Notes:

- 1) **Freq:** How frequently manually intervention is needed to maintain datastream:  
**low:** datastream mostly automated, very little intervention required,  
**med:** Occasionally need to manually pick up data or stations are added.  
**high:** Always manual, many frequent updates to datastream.
- 2) **Effort:** How much effort is needed when maintenance is needed:  
**low:** Only minor changes to scripts necessary or simple change to configuration file;  
**med:** Ingest & DOD changes required to maintain datastream.  
**high:** Ingest & DOD changes required maintaining datastream and ingesting or processing scripts require significant resources to modify.