

As of May 11, 2011																										
Count	CDR Variable Name	Essential Climate Variable	Algorithm Name	Collateral Products	Responsible Team Member	Source Data Sensors	Future Source Data Sensor	Spacecraft	Channels	Spatial Resolution	Temporal Resolution	Product Units	Projection	Output Format	Metadata Standard	Other Characteristics	Key publication reference	Existing User Groups	Expected User Groups	Likely Societal Impacts	Outcome	Impact	Community Workshop Status			
			Domain	Variable						Horizontal	Vertical	Orbits	Start Date	End Date												
1	MSU ch4 (AMSU ch9) brightness temperature				Shu-peng Ben Ho	AMSU brightness temperatures from NOAA 15, 16, 18, and MSU from NOAA 14, and surface radiosonde temperature observations	Aqua AMSU and NPP ATMS	POES	MSU ch4/AMSU ch9	200km	200mb	all POES orbits	1979	2012	degree Kelvin	+/- 15 degrees for satellite nadir viewing angles	ndf4	research	90N-90S	Mo, S.-P., Y.-H. Kuo, and S. Sokolovskiy, Improvement of the Temperature and Moisture Retrievals in the Lower Troposphere using AIRS and GPS Radio Occultation Measurements, <i>Journal of Atmospheric and Oceanic Technology</i> , 24, doi: 10.1175/JTECH2011.1.1726-1739, 2007.	Many users include ECMWF, NCEP, etc who use AMSU/MSU and RO data	climate modeling groups, ECMWF, NCEP and reanalysis groups	at a 40,000 foot level appropriate for non-technical policy makers, how society will eventually benefit from your work (e.g., Government can make better informed policy decisions regarding climate change. Economy more resilient due to better climate change adaptation strategies in energy industry, coastal communities become better protected from rising sea-levels and property protected, disease outbreaks better predicted=safer lives	Satellite climate data records can be used by the scientific community to validate model predictions and enhance our understanding of the climate forcing mechanisms	These datasets will also benefit the general public by providing reliable climate information to policy and decision makers and resource managers, and supporting public discussion on key climate-related issues and the future planning.	
2	MSU ch3 (AMSU ch7) brightness temperature								MSU ch3/AMSU ch7	200km	200mb		1979	2012	degree Kelvin	+/- 15 degrees for satellite nadir viewing angles	ndf4									
3	MSU ch2 (AMSU ch5) brightness temperature								MSU ch2/AMSU ch5	200km	200mb		1979	2012	degree Kelvin	+/- 15 degrees for satellite nadir viewing angles	ndf4									