

As of October 18, 2010

Count	Climate Record 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	Outcome	Impact	Website URL (if available)			
										Horizontal	Vertical	Orbits	Start Date	End Date											
1	continental snow cover extent	terrestrial	NOAA Weekly Snow, Daily IMS	snow depth, snow water equivalent	Dave Robinson	POES, GOES	n/a	NASA POES and GOES	vis, nir	1km	5km	morning afternoon	11/66	present	n/a	polar stereographic	various	research	northern hemisphere	Robinson, D.A., K. F. Dewey & R. Heim, Jr. (1993) Global snow cover monitoring: an update. Bulletin of the American Meteorological Society, 74, 1689-1696. Also: Frei, A. & D.A. Robinson (1999) Northern hemisphere snow extent: regional variability 1972-1994. International Journal of Climatology, 19, 1535-1560.	climate, meteorology, hydrology, biology, energy, climate modeling, ocean modeling	animal migrations	Satellite climate record community, land community, biological community	global climate change record of global climate conditions	climate.rutgers.edu/snowcover or snowcover.org or NSIDC.org
2	Sea ice cover	oceanic		sea ice concentrations	Anderson	SMMR, SSM/I	n/a	NASA Nimbus-7, DMSP 9,11,13,15,17	18, 19, 36, 37 GHz	25 km	n/a	mid-morning afternoon	1979	present	percent	SSM/I grid	integer	research	northern hemisphere	energy, climate modeling, ocean modeling, animal migrations	climatologist, meteorologist, biologist, product developers, modelers	Satellite climate record community, land community, biological community	global climate warming, record of global climate conditions	NSIDC.org	
3	melt onset dates on sea ice	oceanic		melt onset dates	Anderson	SMMR, SSM/I	n/a	NASA Nimbus-7, DMSP 9,11,13,15,17	18, 19, 36, 37 GHz	25 km	n/a	mid-morning afternoon	1979	present	date	SSM/I grid	integer	research	northern hemisphere	Drobot and Anderson	energy, climate modeling, ocean modeling, animal migrations	climatologist, meteorologist, biologist, product developers, modelers	Satellite climate record community, land community, biological community	global climate warming, record of global climate conditions	NSIDC.org
4	continental snow cover extent	terrestrial	NOAA Weekly Snow, Daily IMS	snow depth, snow water equivalent	Dave Robinson	POES, GOES	n/a	NASA POES and GOES	vis, nir	1km	5km	morning afternoon	11/66	present	n/a	polar stereographic	various	research	northern hemisphere	Robinson, D.A., K. F. Dewey & R. Heim, Jr. (1993) Global snow cover monitoring: an update. Bulletin of the American Meteorological Society, 74, 1689-1696. Also: Frei, A. & D.A. Robinson (1999) Northern hemisphere snow extent: regional variability 1972-1994. International Journal of Climatology, 19, 1535-1560.	climate, meteorology, hydrology, biology, energy, climate modeling, ocean modeling	animal migrations	Satellite climate record community, land community, biological community	global climate change record of global climate conditions	climate.rutgers.edu/snowcover or snowcover.org or NSIDC.org