

**Regional Weather Information Center  
University of North Dakota**

**Weather and Climate Data Inventory (Preliminary)**

Data Type	Data Start	Data End	Area of Coverage	Data Spatial Resolution	Data Temporal Resolution	Data Location	Data Format	Access Method	Data Volume	Metadata Exist?	Accessibility	Owner	Point-of-Contact	Analysis Tools	Medium Available
Weather Radar Reflectivity	8/1/1995	6/1/2001	United States/Southern Canada	2-km x 2-km	15-min	RWIC	HDF binary	FTP	30 GB	Yes					
Radar Estimated Rainfall	8/1/1995	6/1/2001	United States/Southern Canada	2-km x 2-km	15-min	RWIC	HDF binary	FTP	4 GB	Yes					
Manully Digitized Radar Reflectivity	11/1/1973	12/31/1994	United States	20-nm x 20-nm	1-hour	RWIC	packed binary	FTP	2.7 GB	Yes					
Surface Weather Observations	12/1/1976	current date	North America	Class A	1-hour	RWIC	ASCII Text	FTP	23.4 GB	Yes					
NWS Surface Observations	1/1/1948	current date	United States	NWS SWFO	1-hour	RWIC	packed binary	FTP	3.8 GB	Yes					
Radiosonde (Upper-air) Observations	1/1/1946	current date	North America	WMO Synoptic	12-hour	RWIC	ASCII Text	FTP	4.8 GB	Yes					
Analyzed Weather Fields*	1/1/1978	current date	Red River Basin	4-km x 4-km x 50-mb	1-hour	RWIC	netCDF	call	390 GB	In development					
Daily Cooperative Station Climatology	Period of record	current year - 1	United States	NWS Cooperative	Daily	RWIC	ASCII Text	call	86 GB	Yes					
NEXRAD Level II	5/16/1996	8/8/2001	MT, SD, ND, MN		5-min	RWIC	packed binary		13 GB	Yes					
DOQ's			Red River Basin			RWIC	tiff		12 GB	Yes					
DEM's			MN & ND	30 m		RWIC	dem			Yes					
DEM's			North Dakota	10 m **		RWIC	dem			Yes					
Hydrologic Units			United States	1:250,000		RWIC				Yes					
DRG's		October 1, 1996	ND	1:24,000	N/A	RWIC	tiff		10 GB	Yes					
Landsat 5															
DEM's		July 1, 1995	North America	1:1,000,000		RWIC	bil		300 MB	Yes					
National Land Cover Data Set		May 1, 2000	MN, ND, & SD	30 x 30 m		RWIC	img		883 MB	Yes					
Hydrography Dataset	April 1, 1990	June 22, 1997	West of 87°W	1:100,000		RWIC	arc info shape file		615 MB	Yes					
Landsat 4			Grand Forks, Fargo, and Devil Lake, ND			RWIC	NALC		1,088 GB						
Landsat 5 TM		15-Aug-88	Grand Forks, ND			RWIC	bil		277 MB						
Landsat 5 TM		8-Oct-90	Grand Forks, ND			RWIC	bil		277 MB						
AWIPS Map Database	December, 1998	February, 1999	United States	1:2,000,000	N/A	RWIC	arc info shape file		506 MB	Yes					
ND Land Cover Classification	1997	22-Jun-05	ND	N/A	N/A	RWIC	Erdas Imagine		2 GB	No					
ND GIS Base Map Data		22-Jun-05	ND	variable	N/A	RWIC	arc info shape file		423 MB	Yes					

\*Analyzed weather fields include: Air temperature, dew-point temperatures, maximum wind speed, potential temperature, equivalent potential temperature, evaporation, mixing ratio, vorticity, surface pressure, mean-sea level pressure, u- & v- component wind speed, moisture convergence, moisture advection, visibility  
Data extends to an approximate height of 50,000 ft.