INDEX OF ORIGINAL SURFACE WEATHER RECORDS

(HOURLY, SYNOPTIC, AND AUTOGRAPHIC)

FOR STATIONS IN

DELAWARE

ON FILE AT

NATIONAL CLIMATIC DATA CENTER

FEDERAL BUILDING

ASHEVILLE, NORTH CAROLINA 28801

For sale by the
National Climatic Data Center
Federal Building
Asheville, NC 28801

HOURLY, SYNOPTIC AND AUTOGRAPHIC ORIGINAL RECORDS

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1. Introduction

This index has been prepared as a part of ENDEX, the Environmental Data Index. The purpose of ENDEX is to automate the indexes of selected environmental data to efficiently serve the needs of atmospheric and earth scientists.

All the hourly aviation, synoptic, supplementary airways, and similar observations on file at the National Climatic Data Center for the area shown on the cover page are listed in this index. In deciding about the inclusion of unusual records in this index, those which would be useful for plotting detailed synoptic weather maps were included; those similar to cooperative climatological daily observations are not included in this index.

Autographic records have been included in this index, since values of temperature, atmospheric pressure, wind, relative humidity and so forth could be extracted from them for use in the kinds of studies this index has been designed to aid.

One of the most valuable parts of this index is the geographical information contained in the latitude-longitude and station elevation columns. Many of the station histories for earlier years are incomplete in this regard. Extensive research went into the effort to pinpoint the locations of the stations.

The records listed in this series of indexes form the major collection of surface weather observations covering the United States on file at the NCDC. Begun by the Army Signal Corps in the late 19th century, most of the

records have been preserved and passed on to succeeding government agencies for retention and are now filed in NCDC's repository. Diaries containing entries on weather observations for the earlier part of the 19th century (before the Army Signal Corps began taking systematic observations) are on file at the National Archives and Records Services (NARS), Washington, D.C. and are not indexed in this series.

Copies of the records listed in this index can be provided at the requester's expense in various forms including paper copy, roll microfilm or microfiche. Information from these records can also be provided on punched cards, magnetic tape or as computer printouts. For costs or information relative to these services, write or phone:

National Climatic Data Center
Federal Building
Asheville, North Carolina 28801-2696
Phone (704)258-2850 Ext. 682 - Commercial
or FTS 672-0682

2. Description of Indexes

Alphabetic

The alphabetic listing consists of the names of the weather stations preparing the observations. This is often the name of the city or community; occasionally, it is the name of a military installation, an airport, or a geographical feature. Cross-referencing has been inserted to help the user. For a given station, the records are listed in increasing time order, beginning with the earliest available record. This arrangement provides a quick, almost pictorial, historical overview of the activity at each weather station. Station moves, for example, clearly stand out.

By Year

The records are listed chronologically by year from the earliest available year through 1981, to readily show which are on hand for studies requiring various years of data. This arrangement also expedites and facilitates the selection of records when studying particular storms of the past. By referring to a specific year, all records available at NCDC for that year are listed. An interesting feature of this index is its portrayal of the periodic expansion and contraction of the national meteorological network. From few stations per year in the early times, with the advent of commercial aviation in the 1930's, the number of reporting stations begins to increase. The many stations shown during the World War II and post-War era are followed in most states by a shrinkage in numbers due to retrenchment in the more recent times.

3. Explanation of Entries in Each Column Shown in the Listings

Name

Whenever space was a problem, the following abbreviations were used after the station name:

AP, APT	- Airport	LB Sta	- Light Boat Station
Bch	- Beach	Lk	- Lake
Co	- County	LS	- Light Ship/Station
Cty	- City	Mt	- Mount, Mountain
Fld	- Field	Nk	- Neck
Ft	- Fort	Rk	- Rock
Hb	- Harbor	Rvr	- River
Is	- Island		

Type

The type of weather station is coded to conform with the type of agency that operated the station or by the type of weather observing program. Codes used are:

NATIONAL WEATHER SERVICE
(Formerly U.S. Weather Bureau)

Code	Type of Station
A	Aviation Reports & Coop-A Stations
AC	Cooperative Aviation Reports
NC	National Center
S	Synoptic Reports
SA	Synoptic and Aviation Reports
SAC	Cooperative Synoptic and Aviation Reports
SB	Synoptic and Basic Contract Observing Station
SC	Cooperative Synoptic Reports
WBAS	Weather Bureau Airport Station
WBFO	Weather Bureau Forecast Office
WBMO	Weather Bureau Meteorological Observatory
WBO	Weather Bureau Office
WBUA	Weather Bureau Upper Air Unit
WSFO	Weather Service Forecast Office

MILITARY

Code	Type of Station
AAB	Army Air Base
AAF	Army Air Field
AAFB	Auxiliary Air Force Base
AB	Air Base (Air Force)
AF	Air Force
AFB	Air Force Base
AFS	Air Force Station
ANG	Air National Guard
ASC	Army Signal Corps
MCAF	Marine Corps Air Facility
MCAS	Marine Corps Air Station
NAAF	Naval Auxiliary Air Facility

NATIONAL WEATHER SERVICE (cont)

WSMO	Weather Service Meteorological Observatory
WSO	Weather Service Office

MILITARY (cont)

NAAS	Naval Auxiliary Air Station
NAF	Naval Air Facility
NAS	Naval Air Station
NF	Naval Facility
NS	Naval Station

Other Codes	Type of Station
AMOS	Automatic Weather Station
B	Basic Contract Observing Station (Basic, B, BC)
CAA	Civil Aeronautics Administration
CG	Coast Guard
COOP	Cooperative
FAA	Federal Aviation Agency
FSS	Flight Service Station (FAA)
LAWR	Limited Aviation Weather Reporting Station (Tower)
MARS	Marine Reporting Station
SAWR	Supplementary Airways Weather Reporting Station
SPL	Special Purpose Office (Fire weather, temporary observing sites)
WSCO (WSCMO)	Weather Service Contract Meteorological Observatory

Latitude, Longitude

The coordinates given for each station were extracted from the most authoritative documents available to NCDC. Values are given in degrees and minutes.

Elevation

Station height is given in whole feet above mean sea level. The height above sea level of the station barometer is given, if known. The reported station and ground heights were used as first and second alternatives whenever measured heights were not officially recorded.

Hourly Records by Month

These records are compiled primarily for aviation purposes and they generally contain the most detailed observations taken. Because of their importance, they have been indexed in greater detail than the other types of records. An entry of any digit from 1 to 7 signifies that various numbers of hourly observations are on file at NCDC for that month. The actual digit is related to a code which identifies the average number of observations recorded per day.

Code used to indicate the average number of hourly observations recorded per day (Applies to Hourly Records by Month columns only)

Code	Average Number of Observations Per Day
Blank	- None -- No Records
1	- 24
2	- (Not used)
3	- 3 or less
4	- 4
5	- 5 to 11
6	- 12 to 18
7	- 19 to 23

A valuable source of information about data appearing on these forms through the years is: History of Weather Bureau Climatological Record Forms for Surface Synoptic and Airway Observations. (Key to Meteorological Records Documentation No. 2.211) Washington, DC 1964. For sale by the Superintendent of Documents, Washington, DC 20402.

Number of Months in Year with:

The records in these categories are so voluminous that it was felt an abbreviated index would suffice. In these columns, the digits represent the number of calendar months for which records are on file at NCDC for the indicated year. For example, a 12 means that records are on file for all 12 months of the year. A blank means no records are on file for that year. An 08 followed in the same vertical column by a group of consecutive 12's will nearly always mean that records began in May of the year listed as 08 and were continuous thereafter for as long as 12's were shown.

Synoptic Form

Synoptic observations are generally recorded on WB Form 1083, usually in Greenwich Meridian Time (GMT). The records usually contain four observations per day (generally every six hours) in a special code used for reporting weather internationally. Examples of the form are given in the publication listed previously under the explanation for Hourly Records by Month. Intermediate 3-hourly observations are sometimes included on the form; from July 1939 to December 1948, the 3-hourly observations may appear on a companion WB Form 1082. Nighttime observations are not contained on forms for some stations. Hourly records, if available for the same location, are usually preferable because they contain more data and are generally easier to use.

Meteorological Summary

From 1892 to 1948, WB Forms 1001, and/or 1002, and/or 1014 were used by

first-order Weather Bureau stations to record a comprehensive amount of weather observations and meteorological summaries. A few stations continued this practice after 1948 but used a modified form. Examples of the forms are given in the publication listed previously under the explanation for Hourly Records by Month. A similar military record, Form 1, is also indexed under this category, but no distinction is shown between these records and WB Forms 1001, 1002 and 1014.

Barograms

Barograms contain a continuous record of atmospheric pressure in which the oscillations have been traced at a given station by an inked pen on a moving sheet of ruled paper. In the older records, a 1-inch change of pressure was shown as a 1-inch distance change on the chart. Beginning in 1936, the older instruments were replaced by microbarographs which magnified the change 2-1/2 times. At Weather Bureau stations, each chart formerly contained four days of record. The exact times of pressure changes with passages of squall lines, thunderstorms and other phenomena were hard to read, so the chart commonly in use today is accelerated to rotate once each 12 hours. Two traces appear on each chart since they are changed daily.

Thermograms

Thermograms contain a continuous record of air temperature at a given station. A variety of charts has been used for this purpose through the years. First-order stations are no longer required to operate thermographs. During the years in which thermograms were considered an official record, they were carefully annotated and the periods are nearly complete. For the more recent years, there are gaps in the series of thermograms. Most thermograms being received now are from cooperative stations that have volunteered to send them to NCDC.

Triple Register

Most of the records indexed under this column are continuous daily sheets from the station meteorographs, sometimes known also as a multiple register since they recorded wind direction, wind speed, sunshine and rainfall. The oldest records are from single registers which recorded wind speed only; from two-magnet registers which recorded wind speed, rainfall and sunshine; and from double registers (anemographs) which recorded wind direction and speed. The most recent records of this type are in the form of long strips torn from continuous rolls in daily increments or in rolls of 15-30 days duration.

Wind Recorder

These show a continuous trace of wind speed as opposed to the multiple register type of equipment which is based on an electrical contact opening and closing with the passage of each mile of wind. Many of the records do not contain wind direction traces. For some stations, wind direction and speed are on different rolls.

Humidity Recorder

These are instrumentally recorded charts which contain a continuous measurement of relative humidity or dew point. Charts obtained from hygrothermographs usually contain continuous measurements of humidity and temperature.

Radar Logs

These records contain the radar operator's interpretation of echoes as seen on the station's radar scope. The location, size, shape, movement, intensity, change of intensity, etc., of echoes are usually entered on the logs in coded form by the weather observer.

WBAN Number

This is a system developed by NCDC, in cooperation with the U. S. Military and Canadian Meteorological Services, whereby WBAN numbers were assigned to meteorological stations for control and reference purposes.

4. Station Locator Map

The Station Locator Map(s) immediately following the tabular data show(s) the geographical location of stations (or master stations) included in this publication. This visual aid will facilitate the selection of a station or combination of stations for use in various studies.

RECORDS INDEX ALPHABETIC BY STATION NAME

DELAWARE

NAME	TYPE	YEAR	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH 1 = 24 OBS PER DAY J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH SYNOPTIC FORM	METL SUMMARY	BAROGRM	THERMGRM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
BRANDYWINE SHOALS LS	CG	1972	38 59N	75 06W	*****										5	5	5									
	CG	1973	38 59N	75 06W	*****	5	5	5	5																	
CAPE HENLOPE	SEE DELAWARE BREAKWATER																									
DELAWARE BREAKWATER	COOP	1898	38 48N	75 06W	0																	12				
	COOP	1899	38 48N	75 06W	0																	12				
	COOP	1900	38 48N	75 06W	0																	12				
	COOP	1901	38 48N	75 06W	0																	12				
	COOP	1902	38 48N	75 06W	0																	12				
	COOP	1903	38 48N	75 06W	0																	12				
	COOP	1904	38 48N	75 06W	0																	12				
	COOP	1905	38 48N	75 06W	0																	12				
	COOP	1906	38 48N	75 06W	0																	12				
	COOP	1907	38 48N	75 06W	0																	12				
	COOP	1908	38 48N	75 06W	0																	12				
	COOP	1909	38 48N	75 06W	0																	12				
	COOP	1910	38 48N	75 06W	0																	12				
	COOP	1911	38 48N	75 06W	0																	12				
	COOP	1912	38 48N	75 06W	0																	12				
	COOP	1913	38 48N	75 06W	0																	12				
	COOP	1914	38 48N	75 06W	0																	12				
	COOP	1915	38 48N	75 06W	0																	12				
	COOP	1916	38 48N	75 06W	0																	12				
	COOP	1917	38 48N	75 06W	0																	12				
	COOP	1918	38 48N	75 06W	0																	12				
	COOP	1919	38 48N	75 06W	0																	12				
	COOP	1920	38 48N	75 06W	0																	12				
	COOP	1921	38 48N	75 06W	0																	12				
	COOP	1922	38 48N	75 06W	0																	12				
	COOP	1923	38 48N	75 06W	0																	12				
	COOP	1924	38 48N	75 06W	0																	12				
	COOP	1925	38 48N	75 06W	0																	12				
	COOP	1926	38 48N	75 06W	0																	12				
	COOP	1927	38 48N	75 06W	0																	12				
	COOP	1928	38 48N	75 06W	0																	12				
	COOP	1929	38 48N	75 06W	0																	12				
	A	1930	38 48N	75 06W	23		5	5	5	5	5	5	5	5	5	5	5					12				
	A	1931	38 48N	75 06W	23	5	5	5	5	5	5	5	5	5	5	5	5					12				
	A	1932	38 48N	75 06W	23	5	5	5	5	5	5	5	5	5	5	5	5					12				
	A	1933	38 48N	75 06W	23	5	5	5	5	5	5	5	5									12				
	A	1934	38 48N	75 06W	23		4	5	5	5	5	5	5	5	5	5	5									
	A	1935	38 48N	75 06W	23	5	5	5	5	5	5	5	4	4	4	4	4					12				
	A	1936	38 48N	75 06W	23	4	4	4	4	4	4	4	4	4	4	4	4					12				
	A	1937	38 48N	75 06W	23	4	4											12	10	11		12				
	A	1938	38 48N	75 06W	23													12	12	12		12				
	A	1939	38 48N	75 06W	23													12	12	12		12				
	A	1940	38 48N	75 06W	23													12	12	12		12				
	A	1941	38 48N	75 06W	23													12	12	12		12				
	COOP	1942	38 48N	75 06W	23													06	06	06		06				
	COOP	1948	38 48N	75 05W	20																	12				
	COOP	1949	38 48N	75 05W	20																	12				
	COOP	1950	38 48N	75 05W	20																	12				
	COOP	1951	38 48N	75 05W	20																	12				
	COOP	1952	38 48N	75 05W	20																	12				
	COOP	1953	38 48N	75 05W	20																	12				
	COOP	1954	38 48N	75 05W	20																	12				
	COOP	1955	38 48N	75 05W	20																	12				
	COOP	1956	38 48N	75 05W	20																	12				
	COOP	1957	38 48N	75 05W	20																	12				
	COOP	1958	38 48N	75 05W	20																	12				
	COOP	1959	38 48N	75 05W	20																	12				
	COOP	1960	38 48N	75 05W	20																	12				
	COOP	1961	38 48N	75 05W	20																	12				
	COOP	1967	38 48N	75 05W	20																	12				
	COOP	1968	38 48N	75 05W	20																	12				
	COOP	1969	38 48N	75 05W	20																	09				
DELAWARE LIGHT VES.	CG	1961	38 27N	74 35W	18														04	03						
	CG	1962	38 27N	74 35W	18														06	09						
	CG	1963	38 27N	74 35W	18														09	09						
	CG	1964	38 27N	74 35W	18														12	12						
	CG	1965	38 27N	74 35W	18														12	12						
	CG	1966	38 27N	74 35W	18														11	08						
	CG	1967	38 27N	74 35W	18														11	09						
	CG	1968	38 27N	74 35W	18														12	11						
	CG	1969	38 27N	74 35W	18														10	12						
	CG	1970	38 27N	74 35W	18														11	11						
DOVER	AAF	1942	39 11N	75 30W	25												1		01		01					13707
	AAF	1943	39 11N	75 30W	25	1	1	1	1	1	1	1	1	1	1	1	1		05	12	12					13707
	AAF	1944	39 08N	75 28W	23	1	1	1	1	1	1	1	1	1	1	1	1			12	07		06			13707
	AAF	1945	39 08N	75 28W	23	1	1	1	1	1	1	1	1	1	1	1	1			08	08		09			13707
	AAF	1946	39 08N	75 28W	23	1	1	1	1	1	1	1	1	1					01	03	03		02			13707
DOVER	AFB	1949	39 08N	75 28W	23							5	5	5						03	03		01			13707
	AFB	1950	39 08N	75 28W	21								1	1	1	1	1			03						13707
	AFB	1951	39 08N	75 28W	21	1	1	1	1	1	1	1	1	1	1	1	1			12	10					13707
	AFB	1952	39 08N	75 28W	21	1	1	1	1	1	1	1	1	1	1	1	1			12	12					13707
	AFB	1953	39 08N	75 28W	27	1	1	1	1	1	1	1	1	1	1	1	1			12	03					13707

RECORDS INDEX ALPHABETIC BY STATION NAME

DELAWARE

NAME	TYPE	YEAR	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH 1 = 24 OBS PER DAY: J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH: SYNOPTIC FORM	METL SUMMARY	BAROGRM	THERMOGRM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
DOVER	AFB	1954	39 08N	75 28W	27	1	1	1	1	1	1	1	1	1	1	1	1			12						13707
	AFB	1955	39 08N	75 28W	32	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	AFB	1956	39 08N	75 28W	32	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	AFB	1957	39 08N	75 28W	32	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	AFB	1958	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	AFB	1959	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	AFB	1960	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		03	13707
	AFB	1961	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		12	13707
	AFB	1962	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		12	13707
	AFB	1963	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		12	13707
	AFB	1964	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			03			12		05	13707
	AFB	1965	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1966	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1967	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1968	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1969	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1970	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1971	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1972	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	AFB	1973	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1974	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1975	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1976	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1977	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1978	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1979	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1980	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	AFB	1981	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
DOVER	SAWR	1949	39 05N	75 30W	28				6	6	6	6	6	6	6	6	6									
	SAWR	1950	39 05N	75 30W	28	5	5	5	5	5	5	5	5	5	5	5	5									
	SAWR	1951	39 05N	75 30W	28	5																				
DOVER	SAWR	1975	39 13N	75 36W	56			3	3	3	3	3	3	3	3	3										
	SAWR	1976	39 13N	75 36W	56								3	3	3	3	3									
	SAWR	1977	39 13N	75 36W	56	3	3	3	3	3	3	3	3	3												
	SAWR	1981	39 13N	75 36W	56								3	3	3	5	5									
GEORGETOWN	NAAF	1944	38 41N	75 22W	45		1	1	1	1	1	1	1	1	1	1	1									13764
	NAAF	1945	38 41N	75 22W	45	1	6	6	6	6	6	6	6	6												13764
GEORGETOWN	SAWR	1949	38 41N	75 22W	51				5	6	6	6	6	6	6	6	6									
	SAWR	1950	38 41N	75 22W	51	6	5			6	6	6	6	6												
	SAWR	1952	38 41N	75 22W	51						5	5	5	5												
	SAWR	1953	38 41N	75 22W	51						5	5	5	5												
	SAWR	1954	38 41N	75 22W	51							5	5	5												
	SAWR	1955	38 41N	75 22W	51						5	5	5	5												
	SAWR	1956	38 41N	75 22W	51						5	5	5													
	SAWR	1957	38 41N	75 22W	51						5	5	5	5												
	SAWR	1958	38 41N	75 22W	51						5	5	5	5												
	SAWR	1974	38 41N	75 22W	51		6	6	6	6	6	6	6	5	5	6	6									
	SAWR	1975	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	SAWR	1976	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	SAWR	1977	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	SAWR	1978	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	SAWR	1979	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	5	5	5									
	SAWR	1980	38 41N	75 22W	51	5	5	5	5	5	5	5	5	5	5	5	5									
	SAWR	1981	38 41N	75 22W	51	5	5	5	5	5	5	5	5	5	5	5	5									
HARBOR OF REFUGE LS	CG	1966	38 49N	75 06W	0				5	5	5	5	5	5	5	5	5									
	CG	1967	38 49N	75 06W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1968	38 49N	75 06W	0	5	5	5	5	5	5	5	5		5	5	5									
	CG	1969	38 49N	75 06W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1970	38 49N	75 06W	0		5	5	5	5	5	5	5	5	5	5	5									
	CG	1971	38 49N	75 06W	0	5	5	5	5																	
	CG	1972	38 49N	75 06W	0										5	5	5									
INDIAN RIVER	CG	1972	38 37N	75 04W	0								3	3	3	3	3									
	CG	1973	38 37N	75 04W	0			5	5	5	5	5	5	5	5	5	5									
	CG	1974	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1975	38 37N	75 04W	0	5	5	5		5	5	5	5	5	5	5	5									
	CG	1976	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1977	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1978	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1979	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1980	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1981	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
LEWES	SEE DELAWARE BREAKWATER																									
MIAH MAULL SHOALS LS	CG	1966	39 08N	75 13W	0				5	5	5	5	5	5	5	5	5									
	CG	1967	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1968	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5		5	5									
	CG	1969	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1970	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	3	5	5									
	CG	1971	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1972	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	CG	1973	39 08N	75 13W	0	5	5	5	5	5	5	5														
NEW CASTLE	A	1933	39 40N	75 36W	77					1	1	1	1	5	5	5	5									

RECORDS INDEX ALPHABETIC BY STATION NAME

DELAWARE

NAME	TYPE	YEAR	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH 1 = 24 OBS PER DAY J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH SYNOPTIC FORM	METL SUMMARY	BAROGRM	THERMGRM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
NEW CASTLE	A	1934	39 40N	75 36W	77	5	5	5	5	5																
NEW CASTLE	AAB	1942	39 41N	75 31W	75								1	1	1	1	1									13708
	AAB	1943	39 41N	75 31W	75	1	1	1	1	1	1	1	1	1	1	1	1									13708
	AAB	1944	39 41N	75 36W	78	1	1	1	1	1	1	1	1	1	1	1	1									13708
	AAB	1945	39 41N	75 36W	78	1	1	1	1	1	1	1	1	1	1	1	1			03	03					13708
	AAB	1946	39 41N	75 35W	78	1	1												02	02	02					13708
	AAB	1955	39 41N	75 35W	78																				09	13708
	AAB	1956	39 41N	75 35W	78																				12	13708
	AAB	1957	39 41N	75 35W	78																				07	13708
OVERFALLS LIGHT VES.	CG	1958	38 48N	75 01W	18														07	07						
	CG	1959	38 48N	75 01W	18														12	11						
	CG	1960	38 48N	75 01W	18														10	09						
	CG	1961	38 48N	75 01W	18														01	01						
REHOBOTH	A	1942	38 43N	75 08W	10										3	3	3									93716
	A	1943	38 43N	75 08W	10	3	3	3	3	3	3	3														93716
	SAWR	1949	38 43N	75 08W	10						5	6	6	6												93716
	SAWR	1950	38 43N	75 08W	10						5	5	4													93716
	SAWR	1951	38 43N	75 08W	10						5	6	6	6												93716
WILMINGTON	SEE NEW CASTLE AAB																									13708
WILMINGTON	A	1929	39 46N	75 36W	134						4	4	4	4	4	4	4									13781
	A	1930	39 46N	75 36W	134	4	4																			13781
WILMINGTON	WBAS	1942	39 46N	75 36W	134				6	6	6	6	6	6	6	6	6									13781
WILMINGTON	SAWR	1947	39 40N	75 36W	73											1	1			02						13781
	WBAS	1948	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1949	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1950	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1951	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1952	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1953	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12					01	13781
	WBAS	1954	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1955	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1956	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12					12	13781
	WBAS	1957	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12					11	13781
	WBAS	1958	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1959	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1960	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12		01				13781
	WBAS	1961	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1962	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1963	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1964	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1965	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1966	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1967	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1968	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1969	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1970	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1971	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WBAS	1972	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
	WSO	1973	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11						13781
	WSO	1974	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11			02			13781
	WSO	1975	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11			10			13781
	WSO	1976	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13781
	WSO	1977	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			08			13781
	WSO	1978	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			10			13781
	WSO	1979	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11			10			13781
	WSO	1980	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			09			06			13781
	WSO	1981	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			10			13781

RECORDS INDEX ARRANGED BY YEAR

DELAWARE

YEAR	NAME	TYPE	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH 1 = 24 OBS PER DAY: J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH: SYNOPTIC FORM	MEIL SUMMARY	BAROGRAM	THERMGRM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
1898	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1899	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1900	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1901	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1902	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1903	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1904	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1905	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1906	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1907	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1908	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1909	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1910	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1911	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1912	DELAWARE BREAKWATER	COOP	38 49N	75 06W	0																	12				
1913	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1914	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1915	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1916	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1917	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1918	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1919	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1920	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1921	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1922	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1923	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1924	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1925	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1926	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1927	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1928	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
1929	DELAWARE BREAKWATER	COOP	38 48N	75 06W	0																	12				
	WILMINGTON	A	39 46N	75 36W	134						4	4	4	4	4	4	4									13781
1930	DELAWARE BREAKWATER	A	38 48N	75 06W	23		5	5	5	5	5	5	5	5	5	5	5					12				
	WILMINGTON	A	39 46N	75 36W	134	4	4																			13781
1931	DELAWARE BREAKWATER	A	38 48N	75 06W	23	5	5	5	5	5	5	5	5	5	5	5	5					12				
1932	DELAWARE BREAKWATER	A	38 48N	75 06W	23	5	5	5	5	5	5	5	5	5	5	5	5					12				
1933	DELAWARE BREAKWATER	A	38 48N	75 06W	23	5	5	5	5	5	5	5	5	5								12				
	NEW CASTLE	A	39 40N	75 36W	77					1	1	1	1	5	5	5	5									
1934	DELAWARE BREAKWATER	A	38 48N	75 06W	23		4	5	5	5	5	5	5	5	5	5	5									
	NEW CASTLE	A	39 40N	75 36W	77	5	5	5	5	5																
1935	DELAWARE BREAKWATER	A	38 48N	75 06W	23	5	5	5	5	5	5	5	4	4	4	4	4					12				
1936	DELAWARE BREAKWATER	A	38 48N	75 06W	23	4	4	4	4	4	4	4	4	4	4	4	4					12				
1937	DELAWARE BREAKWATER	A	38 48N	75 06W	23	4	4											12	10	11		12				
1938	DELAWARE BREAKWATER	A	38 48N	75 06W	23													12	12	12		12				
1939	DELAWARE BREAKWATER	A	38 48N	75 06W	23													12	12	12		12				
1940	DELAWARE BREAKWATER	A	38 48N	75 06W	23													12	12	12		12				

RECORDS INDEX ARRANGED BY YEAR

DELAWARE

YEAR	NAME	TYPE	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH (1 = 24 OBS PER DAY) J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH: SYNOPTIC FORM	METL SUMMARY	BAROGRM	THERMOGRM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
1941	DELAWARE BREAKWATER	A	38 48N	75 06W	23													12	12	12		12				
1942	DELAWARE BREAKWATER	COOP	38 48N	75 06W	23													06	06	06		06				
	DOVER	AAF	39 11N	75 30W	25												1		01		01					13707
	NEW CASTLE	AAB	39 41N	75 31W	75								1	1	1	1	1									13708
	REHOBOTH	A	38 43N	75 08W	10										3	3	3									93716
	WILMINGTON	WBAS	39 46N	75 36W	134				6	6	6	6	6	6	6	6	6									13781
1943	DOVER	AAF	39 11N	75 30W	25	1	1	1	1	1	1	1	1	1	1	1	1		05	12	12					13707
	NEW CASTLE	AAB	39 41N	75 31W	75	1	1	1	1	1	1	1	1	1	1	1	1									13708
	REHOBOTH	A	38 43N	75 08W	10	3	3	3	3	3	3	3														93716
1944	DOVER	AAF	39 08N	75 28W	23	1	1	1	1	1	1	1	1	1	1	1	1			12	07		06			13707
	GEORGETOWN	NAAF	38 41N	75 22W	45		1	1	1	1	1	1	1	1	1	1	1									13764
	NEW CASTLE	AAB	39 41N	75 36W	78	1	1	1	1	1	1	1	1	1	1	1	1									13708
1945	DOVER	AAF	39 08N	75 28W	23	1	1	1	1	1	1	1	1	1	1	1	1			08	08		09			13707
	GEORGETOWN	NAAF	38 41N	75 22W	45	1	6	6	6	6	6	6	6	6												13764
	NEW CASTLE	AAB	39 41N	75 36W	78	1	1	1	1	1	1	1	1	1	1	1	1			03	03					13708
1946	DOVER	AAF	39 08N	75 28W	23	1	1	1	1	1	1	1	1	1					01	03	03		02			13707
	NEW CASTLE	AAB	39 41N	75 35W	78	1	1												02	02	02					13708
1947	WILMINGTON	SAWR	39 40N	75 36W	73											1	1			02						13781
1948	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1949	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	23							5	5	5						03	03		01			13707
	DOVER	SAWR	39 05N	75 30W	28				6	6	6	6	6	6	6	6	6									
	GEORGETOWN	SAWR	38 41N	75 22W	51				5	6	6	6	6	6	6	6	6									
	REHOBOTH	SAWR	38 43N	75 08W	10						5	6	6	6												93716
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1950	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	21								1	1	1	1	1			03						13707
	DOVER	SAWR	39 05N	75 30W	28	5	5	5	5	5	5	5	5	5	5	5	5									
	GEORGETOWN	SAWR	38 41N	75 22W	51	6	5			6	6	6	6	6												
	REHOBOTH	SAWR	38 43N	75 08W	10						5	5	4													93716
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1951	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	21	1	1	1	1	1	1	1	1	1	1	1	1			12	10					13707
	DOVER	SAWR	39 05N	75 30W	28	5																				
	REHOBOTH	SAWR	38 43N	75 08W	10						5	6	6	6												93716
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1952	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	21	1	1	1	1	1	1	1	1	1	1	1	1			12	12					13707
	GEORGETOWN	SAWR	38 41N	75 22W	51						5	5	5	5												
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1953	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	27	1	1	1	1	1	1	1	1	1	1	1	1			12	03					13707
	GEORGETOWN	SAWR	38 41N	75 22W	51						5	5	5	5												
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12					01	13781
1954	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	27	1	1	1	1	1	1	1	1	1	1	1	1			12						13707
	GEORGETOWN	SAWR	38 41N	75 22W	51							5	5	5												
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1955	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	32	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	GEORGETOWN	SAWR	38 41N	75 22W	51						5	5	5	5												
	NEW CASTLE	AAB	39 41N	75 35W	78																				09	13708
	WILMINGTON	WBAS	39 40N	75 36W	80	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1956	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	32	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	GEORGETOWN	SAWR	38 41N	75 22W	51						5	5	5													
	NEW CASTLE	AAB	39 41N	75 35W	78																				12	13708
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12					12	13781
1957	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	32	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	GEORGETOWN	SAWR	38 41N	75 22W	51						5	5	5	5												
	NEW CASTLE	AAB	39 41N	75 35W	78																				07	13708
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12					11	13781
1958	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	GEORGETOWN	SAWR	38 41N	75 22W	51						5	5	5	5												
	OVERFALLS LIGHT VES.	CG	38 48N	75 01W	18														07	07						
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1959	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13707
	OVERFALLS LIGHT VES.	CG	38 48N	75 01W	18														12	11						

RECORDS INDEX ARRANGED BY YEAR

DELAWARE

YEAR	NAME	TYPE	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH (1 = 24 OBS PER DAY) J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH: SYNOPTIC FORM	METL SUMMARY	BAROGRAM	THERMGRAM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
1959	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1960	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		03	13707
	OVERFALLS LIGHT VES.	CG	38 48N	75 01W	18														10	09						
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12		01				13781
1961	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														04	03						
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		12	13707
	OVERFALLS LIGHT VES.	CG	38 48N	75 01W	18														01	01						
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1962	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														06	09						
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		12	13707
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1963	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														09	09						
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			12			12		12	13707
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1964	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														12	12						
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1			03			12		05	13707
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1965	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														12	12						
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1966	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														11	08						
	DOVER	AFB	39 08N	75 28W	38	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0				5	5	5	5	5	5	5	5	5									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0				5	5	5	5	5	5	5	5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1967	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														11	09						
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1968	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	12				
	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														12	11						
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0	5	5	5	5	5	5	5	5		5	5	5									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5	5	5			5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1969	DELAWARE BREAKWATER	COOP	38 48N	75 05W	20																	09				
	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														10	12						
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1970	DELAWARE LIGHT VES.	CG	38 27N	74 35W	18														11	11						
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0		5	5	5	5	5	5	5	5	5	5	5									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5	5	5	3	5	5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1971	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0	5	5	5	5																	
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1972	BRANDYWINE SHOALS LS	CG	38 59N	75 06W	*****										5	5	5									
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1						12			13707
	HARBOR OF REFUGE LS	CG	38 49N	75 06W	0										5	5	5									
	INDIAN RIVER	CG	38 37N	75 04W	0								3	3	3	3	3									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WBAS	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12						13781
1973	BRANDYWINE SHOALS LS	CG	38 59N	75 06W	*****	5	5	5	5																	
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	INDIAN RIVER	CG	38 37N	75 04W	0		5	5	5	5	5	5	5	5	5	5	5									
	MIAH MAULL SHOALS LS	CG	39 08N	75 13W	0	5	5	5	5	5	5															
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11						13781
1974	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	GEORGETOWN	SAWR	38 41N	75 22W	51		6	6	6	6	6	6	6	6	5	5	6									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11			02			13781
1975	DOVER	SAWR	39 13N	75 36W	56			3	3	3	3	3	3	3	3	3										
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	GEORGETOWN	SAWR	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5		5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11			10			13781

RECORDS INDEX ARRANGED BY YEAR

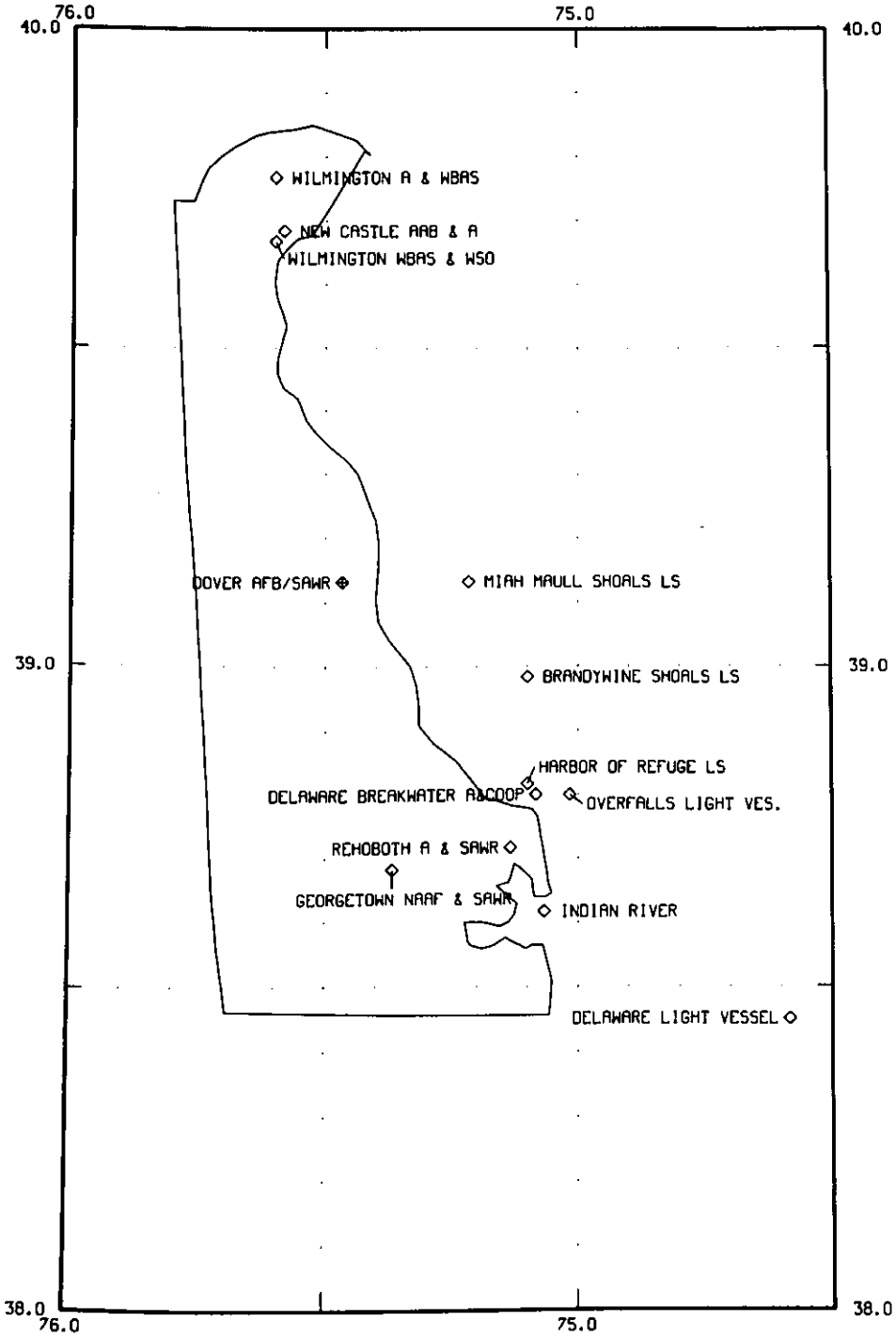
DELAWARE

YEAR	NAME	TYPE	LAT.	LONG.	ELEV.	HOURLY RECORDS BY MONTH 1 = 24 OBS PER DAY J	F	M	A	M	J	J	A	S	O	N	D	NUMBER OF MONTHS IN YEAR WITH SYNOPTIC FORM	METL SUMMARY	BAROGRAM	THERMGRM	TRIPLE REGISTER	WIND RECORDER	HUMIDITY RECORDER	RADAR LG	WBAN NUMBER
1976	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	DOVER	SAWR	39 13N	75 36W	56								3	3	3	3	3									
	GEORGETOWN	SAWR	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			12			13781
1977	DOVER	SAWR	39 13N	75 36W	56	3	3	3	3	3	3	3	3	3												
	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	GEORGETOWN	SAWR	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			08			13781
1978	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	GEORGETOWN	SAWR	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	6	6	6									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			10			13781
1979	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	GEORGETOWN	SAWR	38 41N	75 22W	51	6	6	6	6	6	6	6	6	6	5	5	5									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			11			10			13781
1980	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	GEORGETOWN	SAWR	38 41N	75 22W	51	5	5	5	5	5	5	5	5	5	5	5	5									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			09			06			13781
1981	DOVER	AFB	39 08N	75 28W	24	1	1	1	1	1	1	1	1	1	1	1	1									13707
	DOVER	SAWR	39 13N	75 36W	56								3	3	3	5	5									
	GEORGETOWN	SAWR	38 41N	75 22W	51	5	5	5	5	5	5	5	5	5	5	5	5									
	INDIAN RIVER	CG	38 37N	75 04W	0	5	5	5	5	5	5	5	5	5	5	5	5									
	WILMINGTON	WSO	39 40N	75 36W	96	1	1	1	1	1	1	1	1	1	1	1	1			12			10			13781

DELAWARE

LEGEND

◇ - STATION
◆ - STATION WITH TWO OR MORE STATION TYPES OPERATING AT THE SAME LOCATION DURING SOME PERIODS



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