HOURLY PRECIPITATION DATA

MARYLAND AND DELAWARE

DECEMBER 2012

WITH ANNUAL SUPPLEMENT

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Director
National Climatic Data Center

noaa National Oceanic and Atmospheric Administration

National Environmental Satellite, Data and Information Service

National Climatic Data Center
Asheville, North Carolina

MARYLAND AND DELAWARE

DAILY PRECIPITATION TOTALS

DECEMBER 2012

GAGE	STATION	TOTAL	DAY OF MONTH																												
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	DELAWARE																																
N	WILMINGTON NEW CASTLE CO	3.92		.02			T		.22	.10	.31	.05	.09					.05	.07	.22		.39	1.05			.14		.98		T	.23		
	MARYLAND																																
N	BALTIMORE WASH INTL AP	3.11		T					.02	.03	.19	T	.09				T	.07	.14	T		.69	.47			.17		1.05	.03		.16		
N	MARYLAND SCIENCE CENTER	3.19							.03		.29		.10					.02	.10			.67	.58			.20		.96	.10		.14		

MARYLAND AND DELAWARE

HOURLY PRECIPITATION

DECEMBER 2012

STATION	DATE	A.M. HOUR ENDING												P.M. HOUR ENDING										TOTAL
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
DELAWARE																										
WILMINGTON NEW CASTLE CO	2																				.01	T	.01			.02
	5			T		T	T	T																		T
	7									.02	.04	.01	.01									.01	T	.02	.11	.22
	8	.08	.01	T	.01																					.10
	9	T		T	T	T	T	.01	.02	.09	.07	.01	.03	T			.01	.01	.01				.02	.03	T	.31
	10		.05																							.05
	11		T	T	.01	.07	.01	T																		.09
	16				T														T	.01	.01	T	.02	.01	T	.05
	17	.01	.02			.01	.01											T					.01	.01	T	.07
	18	.20	.02																							.22
	20																	T	T		T	.04	.13	.11	.11	.39
	21	.24	.11	.12	.23	.10	.20	.05		T	T															1.05
	24																	.01	.06	.04	.01	.01	.01			.14
	26												T	.05	.05	.13	.09	.06	.08	.24	.24	.04				.98
	28								T																	T
	29											.05	.06	.08	.03	.01	T									.23
MARYLAND																										
BALTIMORE WASH INTL AP	2																		T	T						T
	7								.01		T											T	T	.01	T	.02
	8																						.01	.02		.03
	9			T	T		.01	.06	.07	.02	T	.01	T				T	T	T	T	.01	T	.01	T		.19
	10			T	T	T		T						T												T
	11			.01	.05	.03	T																			.09
	15																								T	T
	16	T	T																	.06	.01	T	T			.07
	17	.01			T								T	T	T	T	T	T	.01	T	.01	T	.01	.03	.07	.14
	18	T													T											T
	20																T	T		T	.03	.12	.14	.19	.21	.69
	21	.15	.10	.04	.18	T																				.47
	24														T	.03	.05	.05	.02	.02	T	T				.17
	26								.01	.05	.06	.06	.08	.10	.13	.13	.12	.17	.01	.01	T	.01	.06	.01	.04	1.05
	27	.01	T	.02																						.03
	29										.01	.11	.02	.02	T	T	T									.16
MARYLAND SCIENCE CENTER	7									.01													.01	.01		.03
	9				.01		.01	.08	.06	.10									.01		.01		.01			.29
	11				.09	.01																				.10
	16																				.01		.01			.02
	17																				.01	.01	.01	.03	.04	.10
	20																				.02	.13	.13	.17	.22	.67
	21	.25	.13	.05	.14	.01																				.58
	24															.01	.06	.07	.03	.03						.20
	26									.05	.04	.06	.06	.08	.14	.15	.10	.17	.04				.02		.05	.96
	27	.02	.04	.04																						.10
	29											.09	.03	.01	.01											.14

MARYLAND AND DELAWARE

MONTHLY PRECIPITATION MAXIMA

DECEMBER 2012

STATION	MAXIMA FOR MEASURMENT									MAXIMUM ACCUMULATION
	MINUTES			HOURS						
	15	30	45	1	2	3	6	12	24	
DELAWARE										
WILMINGTON NEW CASTLE CO				.24 26/2000+	.48 26/2000	.56 26/2000	1.00 21/0600	1.44 21/0800+	1.44 21/2000+	
MARYLAND										
BALTIMORE WASH INTL AP				.21 20/2400	.40 20/2400	.55 21/0100	.91 21/0200	1.16 21/0700+	1.16 21/1900+	
MARYLAND SCIENCE CENTER				.25 21/0100	.47 21/0100	.64 21/0100	1.03 21/0200	1.25 21/0700+	1.25 21/1900+	

MONTHLY PRECIPITATION TOTALS

MARYLAND AND DELAWARE **DECEMBER 2012**

STATION	ANNUAL	MONTH											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DELAWARE													
WILMINGTON NEW CASTLE CO	36.30	2.56	2.09	.92	2.56	2.25	3.62	3.05	2.81	5.29	6.25	.98	3.92
MARYLAND													
BALTIMORE WASH INTL AP	m	m	m	m	1.99	1.99	2.68	3.27	5.82	2.21	8.93	.71	3.11
MARYLAND SCIENCE CENTER	m	m	m	m	2.25	2.44	1.88	5.98	5.89	3.00	9.36	.64	3.19

REFERENCE NOTES

Hourly Precipitation Data (HPD) are obtained from recording rain gages. The rain gage may be located at a National Weather Service, Federal Aviation Administration, or Cooperative Observer Station. HPD time resolution is 15 minutes or 1 hour. Published data are displayed at an hourly resolution. Precipitation values in this bulletin are in inches. Times are local standard.

Standard rain gage types:

F Weighing gage : reported in inches to tenths
T Tipping bucket : reported in inches to hundredths
U Weighing gage : reported in inches to hundredths
N Not specified

HPD maxima cover 9 time periods from 15 minutes to 24 hours and do not necessarily end on whole hours. Stations that report hourly data only will not have maxima computed for periods less than 1 hour. If any data are missing, no maxima are computed. MAXIMUM ACCUMULATION is the largest accumulated precipitation amount from times with unknown data distribution during a month. Clock mechanisms sometimes stick or stop; some of the special symbols in the HPD section are used when such "signatures" are found in the data.

Information contained in the station name:

// Rain gage equipped with a wind shield.

Inactive station. Symbol found by station name in the Station Index.

$ Experimental rain gage or unusual measurement procedure which may have some effect on HPD.
Common types are:

$1 rain gage with a heated orifice
$2 rain gage with an automatic siphon
$3 rain gage with a remote orifice and funnel

8 SW or other numbers and letters following the name, indicate the distance in miles, and the direction, from the nearest post office.

Special symbols in the HPD:

a Begin accumulation sometime within the hour period or day period.

A End accumulation during the day or hour. Will follow the distribution amount.

***** Temporal distribution unknown. First HPD value that follows is the total accumulated amount.

E Estimated monthly total by spatial modelling.

i Incomplete hourly total. One (1) or more 15 minute periods are missing.

I Incomplete daily or incomplete monthly total. One (1) or more periods are missing.

P Daily or monthly total excludes highly suspect data value(s).

q Hourly total excludes one (1) or more questionable 15 minute periods.

Q Questionable 15 minute data. Seen in Maxima tables.

R Time of occurrence is suspect. Amount is included in daily total.

T Trace amounts are included only for Federally funded meteorological observing sites.

X Value greater than 9.99 - refer to Hourly Precipitation Section for daily total.

Z Probable melting frozen precipitation included in total.

[Begin missing period during the hour (inclusive) or day.

] End missing period during the hour (inclusive) or day.

{ Begin delete period during the hour (inclusive) or day.

} End delete period during the hour (inclusive) or day.

m Data missing for part or all of the period.

- Data deleted for part or all of the period.

+ Duplicate maxima for same time period; latest is shown.

NOTE: Missing (m) flag in the MONTHLY PRECIPITATION TOTALS page represents missing and/or deleted data for part or all of period.

NOTE: Only the first and last rows of long groups of missing (m), deleted (-), and accumulated (*) data are shown.

NOTE: The special symbols in the HPD appear as a suffix to type "F" values, or directly below type "T" and type "U" gage values.

NOTE: TIPPING BUCKET precipitation gages become increasingly inaccurate with increasing rainfall intensities. TIPPING BUCKET gages also may NOT correctly report the amount or time distribution during frozen or freezing precipitation events (i.e. snow, hail, sleet, or freezing rain).

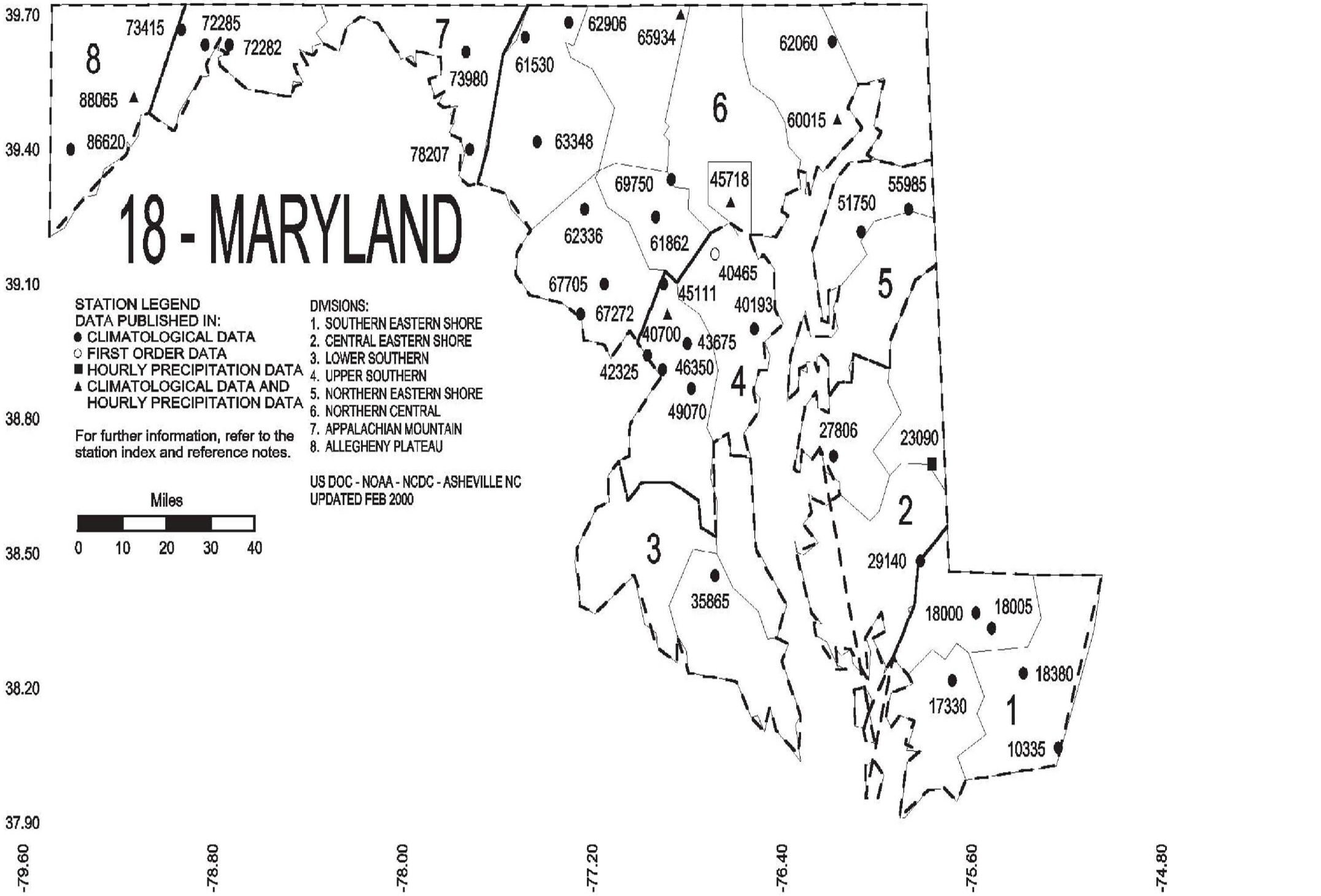
NOTE: Users of data from this publication may notice that daily totals may differ from those listed in the CLIMATOLOGICAL DATA (CD) publication. There are two primary reasons for the differences. The first is because the precipitation values are measured by two different gage types. The second reason is that the totals may be measured at different times. Most manual measurements are made at or near 8 AM or 5 PM local time while the daily totals from the hourly precipitation gages are computed on a midnight (calendar day) basis.

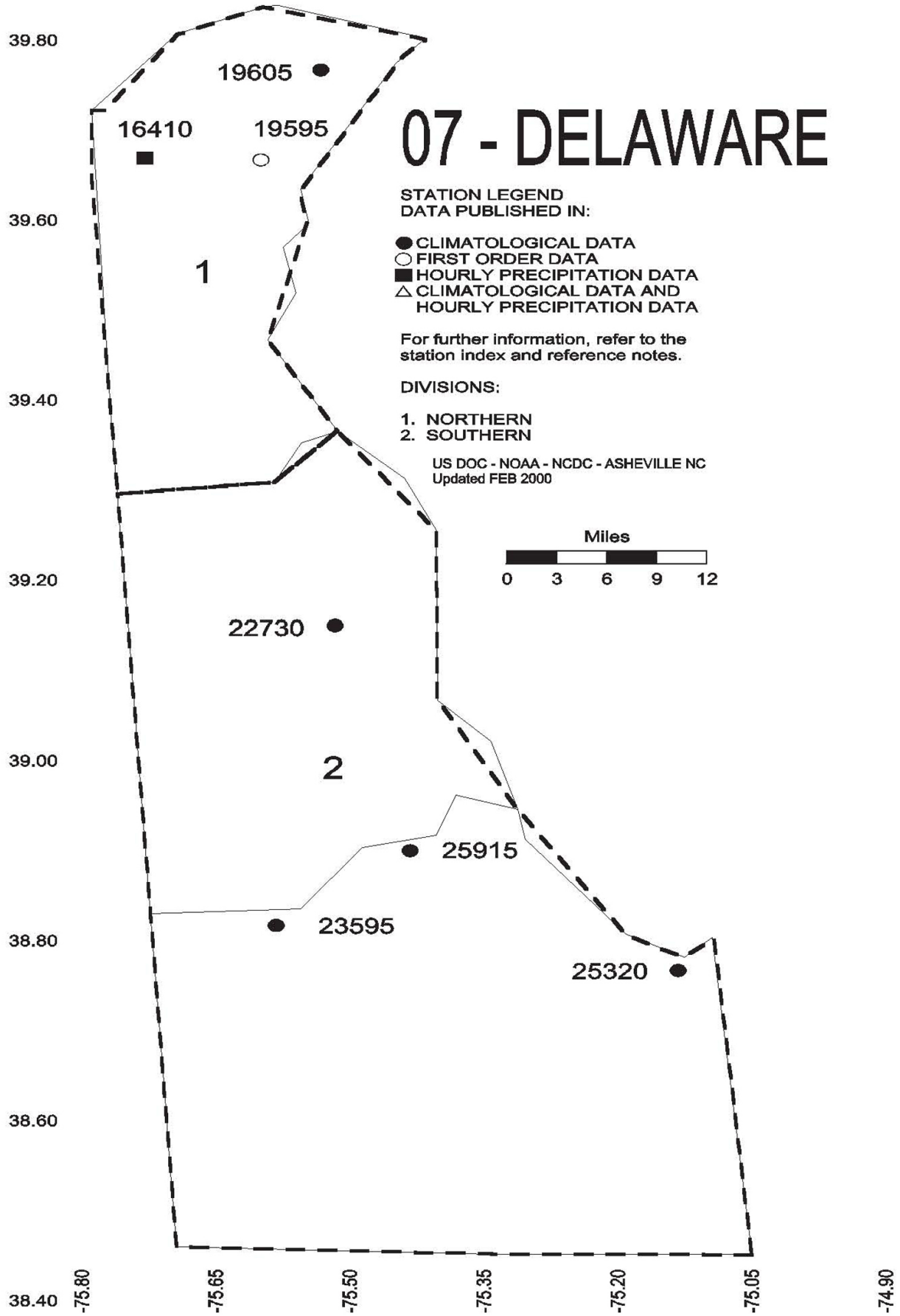
The data presented are also available in digital form from our web page at http://www.ncdc.noaa.gov in PDF files and ASCII text format.

STATION INDEX

MARYLAND AND DELAWARE **DECEMBER 2012**

Station	Index No.	County	Drainage	Latitude	Longitude	Elevation Ft.	Years Of
DELAWARE							
WILMINGTON NEW CASTLE CO	9595	NEW CASTLE	2	39 40	75 36	79	64
MARYLAND							
BALTIMORE WASH INTL AP	0465	ANNE ARUNDEL	3	39 10	76 41	156	77
MARYLAND SCIENCE CENTER	5718	BALTIMORE (C		39 17	76 37	20	14


18 - MARYLAND
STATION LEGEND
DATA PUBLISHED IN:
● CLIMATOLOGICAL DATA
○ FIRST ORDER DATA
■ HOURLY PRECIPITATION DATA
▲ CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA
For further information, refer to the station index and reference notes.
Miles
0 10 20 30 40
DIVISIONS:
1. SOUTHERN EASTERN SHORE
2. CENTRAL EASTERN SHORE
3. LOWER SOUTHERN
4. UPPER SOUTHERN
5. NORTHERN EASTERN SHORE
6. NORTHERN CENTRAL
7. APPALACHIAN MOUNTAIN
8. ALLEGHENY PLATEAU
US DOC - NOAA - NCDC - ASHEVILLE NC
UPDATED FEB 2000
73415
72285
72282
88065
86620
73980
78207
61530
62906
65934
62060
60015
63348
69750
45718
55985
51750
62336
61862
40465
67705
45111
40193
67272
40700
43675
42325
46350
49070
27806
23090
29140
35865
18000
18005
18380
17330
10335
39.70
39.40
39.10
38.80
38.50
38.20
37.90
-79.60
-78.80
-78.00
-77.20
-76.40
-75.60
-74.80


07 - DELAWARE
STATION LEGEND
DATA PUBLISHED IN:
CLIMATOLOGICAL DATA
FIRST ORDER DATA
HOURLY PRECIPITATION DATA
CLIMATOLOGICAL DATA AND HOURLY PRECIPITATION DATA
For further information, refer to the station index and reference notes.
DIVISIONS:
1. NORTHERN
2. SOUTHERN
US DOC - NOAA - NCDC - ASHEVILLE NC
Updated FEB 2000
Miles
0 3 6 9 12
19605
16410
19595
1
22730
2
25915
23595
25320
39.80
39.60
39.40
39.20
39.00
38.80
38.60
38.40
-75.80
-75.65
-75.50
-75.35
-75.20
-75.05
-74.90

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Asheville, NC 28801-5001

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Fax number: (828) 271-4876

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(828) 271-4876 (Fax)

NOAA\National Climatic Data Center
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Asheville, NC 28801-5001