

GEOPHYSICAL BULLETIN

No. 3

Frequency

of the Centres of Closed Low Pressure Systems  
Over the North Atlantic Ocean

by

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April 1951

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN

Before commencing an investigation into the relationship between cyclonic frequency over the North Atlantic and the sunspot cycle, the author had in April 1949 a correspondence with Professor H. C. WILLETT, Cambridge, Mass., who suggested that the data used should be tabulated in such a way that they could be combined to show the change of storm frequency between any desired phase of the single or double sunspot cycle.

The basic material for this investigation which might be of use for future research, is published in the following tables, although smallsized isopleths of these frequencies for January, April, July and October were circulated in a restricted pamphlet (declassified March 1, 1946) by the U. S. Weather Division Headquarters Army Air Forces in April 1944.

The frequencies refer to the area of the North Atlantic and its adjacent coasts between the equator and 70° N. and between 90° W. of Greenwich and the meridian of Greenwich. This region was divided into 252 squares each of 5 degrees latitude- and longitude-difference. By means of a grid the centres of relatively low pressure as shown by the U. S. Weather Bureau Northern Hemisphere Historical Map Series published during the recent war, were located and the barometric pressure in these centres at 1300 G.M.T. for each day of the period 1899 to

1938 determined. The frequency of the cyclonic centres in each square was then deduced by means of punched cards.

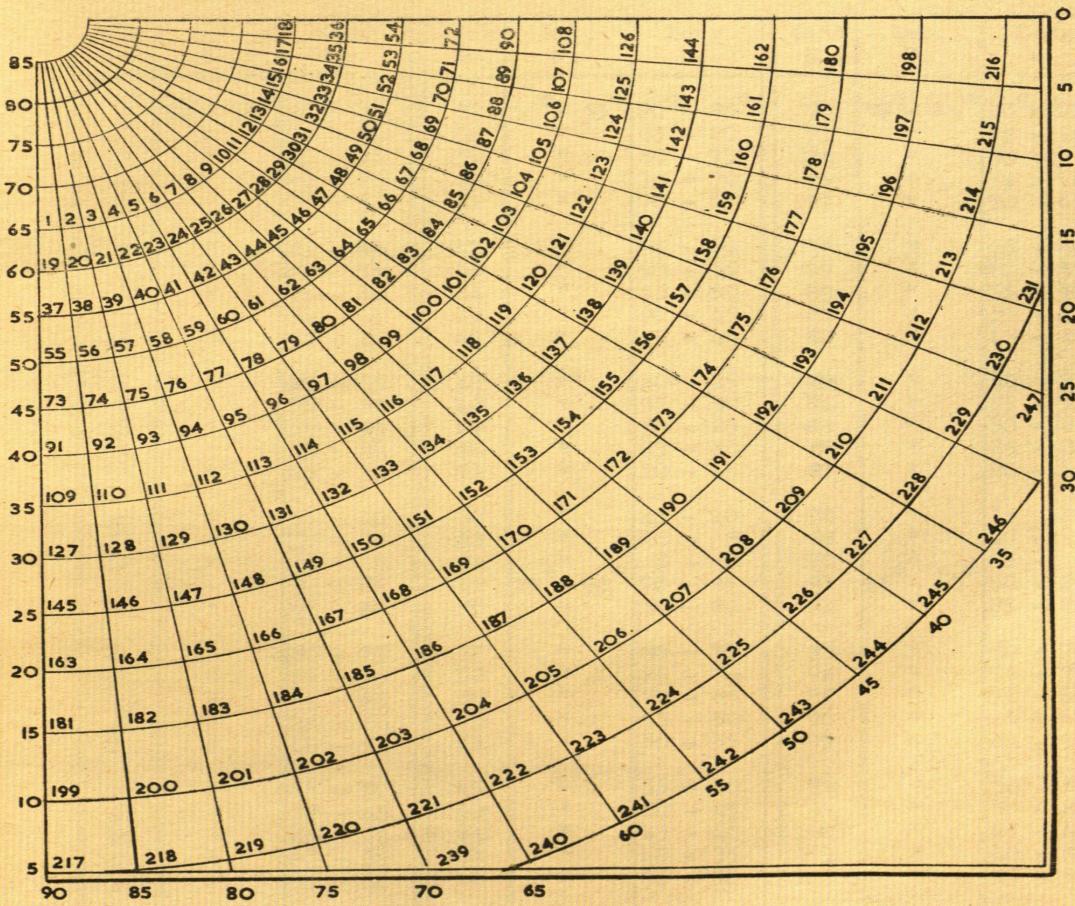
The grid for determining the location of the centres of cyclones is appended in reduced size and accompanied by a table giving the co-ordinates corresponding to the grid numbers which form the headings of the frequency tables.

Acknowledgement. We are indebted to the Chief of the U. S. Weather Bureau, Dr. F. W. REICHELDERFER, for presenting a complete set of the most valuable Northern Hemisphere Historical Map Series to the School of Cosmic Physics of our Institute, to Miss NUALA O'BRIEN of the School for carefully evaluating 14,600 weather maps, to the IRISH LAND COMMISSION of the Department of Lands and to the CALCULATING AND STATISTICAL SERVICE in Dublin for the rapid production of the punched cards and for sorting and tabulating them so reliably.

L. W. Pollak

Reference

L. W. Pollak and P. G. Tedde, S.J.: On the Frequency of Cyclones over the North Atlantic related to the Sunspot Cycle. Archiv für Meteorologie, Geophysik und Bioklimatologie (In Press).



Grid for Determining Location of Centres  
of Closed Low Pressure Systems

Serial grid number in bottom left-hand corner

## Coordinates

corresponding to Grid Numbers

Grid No.	Lat. N.	Long. W.	Grid No.	Lat. N.	Long. W.	Grid No.	Lat. N.	Long. W.
1	70° - 65°	90° - 85°	37	60° - 55°	90° - 85°	73	50° - 45°	90° - 85°
2	"	85 - 80	38	"	85 - 80	74	"	85 - 80
3	"	80 - 75	39	"	80 - 75	75	"	80 - 75
4	"	75 - 70	40	"	75 - 70	76	"	75 - 70
5	"	70 - 65	41	"	70 - 65	77	"	70 - 65
6	"	65 - 60	42	"	65 - 60	78	"	65 - 60
7	"	60 - 55	43	"	60 - 55	79	"	60 - 55
8	"	55 - 50	44	"	55 - 50	80	"	55 - 50
9	"	50 - 45	45	"	50 - 45	81	"	50 - 45
10	"	45 - 40	46	"	45 - 40	82	"	45 - 40
11	"	40 - 35	47	"	40 - 35	83	"	40 - 35
12	"	35 - 30	48	"	35 - 30	84	"	35 - 30
13	"	30 - 25	49	"	30 - 25	85	"	30 - 25
14	"	25 - 20	50	"	25 - 20	86	"	25 - 20
15	"	20 - 15	51	"	20 - 15	87	"	20 - 15
16	"	15 - 10	52	"	15 - 10	88	"	15 - 10
17	"	10 - 5	53	"	10 - 5	89	"	10 - 5
18	"	5 - 0	54	"	5 - 0	90	"	5 - 0
19	65° - 60°	90 - 85	55	55° - 50°	90 - 85	91	45° - 40°	90 - 85
20	"	85 - 80	56	"	85 - 80	92	"	85 - 80
21	"	80 - 75	57	"	80 - 75	93	"	80 - 75
22	"	75 - 70	58	"	75 - 70	94	"	75 - 70
23	"	70 - 65	59	"	70 - 65	95	"	70 - 65
24	"	65 - 60	60	"	65 - 60	96	"	65 - 60
25	"	60 - 55	61	"	60 - 55	97	"	60 - 55
26	"	55 - 50	62	"	55 - 50	98	"	55 - 50
27	"	50 - 45	63	"	50 - 45	99	"	50 - 45
28	"	45 - 40	64	"	45 - 40	100	"	45 - 40
29	"	40 - 35	65	"	40 - 35	101	"	40 - 35
30	"	35 - 30	66	"	35 - 30	102	"	35 - 30
31	"	30 - 25	67	"	30 - 25	103	"	30 - 25
32	"	25 - 20	68	"	25 - 20	104	"	25 - 20
33	"	20 - 15	69	"	20 - 15	105	"	20 - 15
34	"	15 - 10	70	"	15 - 10	106	"	15 - 10
35	"	10 - 5	71	"	10 - 5	107	"	10 - 5
36	"	5 - 0	72	"	5 - 0	108	"	5 - 0

## Coordinates

corresponding to Grid Numbers - concluded

Grid No.	Lat. N.	Long. W.	Grid No.	Lat. N.	Long. W.	Grid No.	Lat. N.	Long. W.
109	40° - 35°	90° - 85°	145	30° - 25°	90° - 85°	181	20° - 15°	90° - 85°
110	" 85 - 80		146	" 85 - 80		182	" 85 - 80	
111	" 80 - 75		147	" 80 - 75		183	" 80 - 75	
112	" 75 - 70		148	" 75 - 70		184	" 75 - 70	
113	" 70 - 65		149	" 70 - 65		185	" 70 - 65	
114	" 65 - 60		150	" 65 - 60		186	" 65 - 60	
115	" 60 - 55		151	" 60 - 55		187	" 60 - 55	
116	" 55 - 50		152	" 55 - 50		188	" 55 - 50	
117	" 50 - 45		153	" 50 - 45		189	" 50 - 45	
118	" 45 - 40		154	" 45 - 40		190	" 45 - 40	
119	" 40 - 35		155	" 40 - 35		191	" 40 - 35	
120	" 35 - 30		156	" 35 - 30		192	" 35 - 30	
121	" 30 - 25		157	" 30 - 25		193	" 30 - 25	
122	" 25 - 20		158	" 25 - 20		194	" 25 - 20	
123	" 20 - 15		159	" 20 - 15		195	" 20 - 15	
124	" 15 - 10		160	" 15 - 10		196	" 15 - 10	
125	" 10 - 5		161	" 10 - 5		197	" 10 - 5	
126	" 5 - 0		162	" 5 - 0		198	" 5 - 0	
127	35° - 30°	90 - 85	163	25° - 20°	90 - 85	199	15° - 10°	90 - 85
128	" 85 - 80		164	" 85 - 80		200	" 85 - 80	
129	" 80 - 75		165	" 80 - 75		201	" 80 - 75	
130	" 75 - 70		166	" 75 - 70		202	" 75 - 70	
131	" 70 - 65		167	" 70 - 65		203	" 70 - 65	
132	" 65 - 60		168	" 65 - 60		204	" 65 - 60	
133	" 60 - 55		169	" 60 - 55		205	" 60 - 55	
134	" 55 - 50		170	" 55 - 50		206	" 55 - 50	
135	" 50 - 45		171	" 50 - 45		207	" 50 - 45	
136	" 45 - 40		172	" 45 - 40		208	" 45 - 40	
137	" 40 - 35		173	" 40 - 35		209	" 40 - 35	
138	" 35 - 30		174	" 35 - 30		210	" 35 - 30	
139	" 30 - 25		175	" 30 - 25		211	" 30 - 25	
140	" 25 - 20		176	" 25 - 20		212	" 25 - 20	
141	" 20 - 15		177	" 20 - 15		213	" 20 - 15	
142	" 15 - 10		178	" 15 - 10		214	" 15 - 10	
143	" 10 - 5		179	" 10 - 5		215	" 10 - 5	
144	" 5 - 0		180	" 5 - 0		216	" 5 - 0	

FREQUENCY

OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS

OVER THE NORTH ATLANTIC OCEAN

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1899	-	-	3	3	8	5	7	11	6	6	2	6	12	8	6
1900	3	2	2	1	5	4	6	14	5	4	2	10	12	7	3
1901	4	6	4	5	4	8	11	7	4	4	9	10	11	8	5
1902	2	3	3	3	5	10	17	11	2	2	6	11	4	9	3
1903	3	2	2	5	6	9	25	14	1	1	5	9	9	6	5
1904	13	8	11	6	8	11	3	4	1	3	7	13	6	5	10
1905	2	5	4	2	2	15	13	17	4	1	6	14	8	4	8
1906	1	-	1	2	-	9	29	27	5	5	9	12	10	15	13
1907	-	-	-	3	5	4	20	22	6	3	7	9	12	11	8
1908	-	1	-	3	3	14	17	11	7	4	18	6	11	8	4
1909	1	2	-	-	2	4	20	19	6	8	10	8	11	8	2
1910	1	3	2	2	2	6	12	16	5	7	1	10	4	10	4
1911	1	3	-	4	1	9	13	15	4	-	4	2	10	7	10
1912	1	1	1	3	3	6	7	11	1	2	3	7	7	8	3
1913	-	-	2	1	6	12	17	15	4	2	12	14	8	7	8
1914	1	1	-	1	6	7	10	27	5	2	8	18	8	5	6
1915	3	1	2	-	5	14	11	21	-	2	5	13	14	5	4
1916	-	2	1	2	4	13	13	13	1	2	9	13	8	2	4
1917	2	1	9	2	5	15	23	14	-	1	8	7	10	6	2
1918	5	4	4	8	4	1	10	11	7	1	6	12	12	7	7
1919	3	1	3	1	5	6	7	11	7	8	6	5	4	13	9
1920	2	2	-	4	2	6	10	13	1	2	3	13	10	10	7
1921	-	-	2	1	3	6	6	18	5	1	10	17	16	12	9
1922	1	1	1	1	5	2	21	18	2	3	6	13	8	9	6
1923	-	1	5	5	4	9	16	7	5	6	7	7	7	7	6
1924	-	-	-	1	4	8	16	12	3	5	11	7	3	5	6
1925	2	4	4	5	7	12	15	11	6	2	15	12	10	7	7
1926	1	2	4	3	4	8	6	8	4	4	6	4	8	3	8
1927	2	2	2	2	6	8	17	9	7	4	6	4	8	3	8
1928	3	2	4	3	5	15	23	23	18	7	4	3	1	4	5
1929	2	4	6	3	2	5	11	10	7	4	3	5	1	4	11
1930	1	4	3	2	5	-	4	7	3	4	5	5	8	3	10
1931	3	4	1	3	2	5	5	17	6	3	5	3	6	7	8
1932	3	4	4	4	5	4	18	22	6	1	8	10	4	8	6
1933	2	7	3	6	8	11	12	9	4	7	6	7	6	6	7
1934	3	5	8	11	5	7	14	10	4	3	3	4	6	7	5
1935	3	4	3	8	5	7	15	20	3	4	5	2	2	8	8
1936	5	4	5	8	6	8	14	11	6	1	1	7	11	8	5
1937	2	3	5	5	8	6	8	11	2	1	5	4	3	6	7
1938	6	1	5	6	9	14	9	14	4	2	7	5	5	11	8

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1899	1	2	2	1	2	5	2	3	8	9	14	6	5	9	7
1900	2	3	-	6	9	7	7	8	5	15	18	11	4	9	8
1901	3	5	3	11	9	6	4	5	4	2	7	3	12	6	12
1902	6	3	4	9	5	6	6	2	5	6	9	8	7	8	9
1903	5	7	2	9	4	7	4	5	3	9	16	4	8	8	10
1904	8	4	5	16	5	5	4	5	4	10	24	15	7	12	16
1905	7	3	6	8	5	6	5	6	4	16	11	9	6	8	2
1906	2	5	3	1	-	3	-	6	6	3	18	10	5	5	9
1907	3	2	3	8	3	2	4	2	7	13	17	14	3	5	11
1908	7	3	4	-	-	4	1	1	10	8	19	12	6	2	1
1909	7	4	4	2	2	-	-	3	2	15	20	9	6	4	8
1910	4	5	1	1	2	7	1	3	7	13	21	7	4	4	9
1911	4	3	3	3	1	3	3	3	6	7	27	16	10	16	8
1912	7	4	5	-	5	3	3	4	5	11	35	14	7	10	10
1913	6	8	4	3	-	2	3	6	2	15	29	15	12	18	8
1914	3	7	4	4	1	1	4	4	-	13	35	14	7	11	10
1915	3	7	4	2	-	1	6	2	4	11	16	6	6	6	7
1916	4	9	8	9	5	6	4	7	7	11	27	8	12	17	10
1917	3	3	7	8	7	2	4	7	3	23	12	9	5	8	11
1918	7	5	4	12	5	3	6	4	3	5	14	9	7	9	6
1919	9	6	8	7	8	5	2	7	11	8	22	9	6	9	9
1920	6	6	4	4	6	3	3	6	3	5	13	13	9	9	9
1921	6	10	2	5	3	1	2	2	2	17	20	16	13	16	16
1922	7	7	6	2	1	4	4	2	2	11	18	12	9	7	11
1923	12	12	9	6	3	2	6	4	3	8	28	9	10	9	9
1924	10	9	9	4	2	2	5	3	2	8	7	9	3	13	7
1925	7	8	14	2	4	11	6	4	1	5	9	6	11	10	7
1926	4	-	1	1	2	3	2	1	4	6	8	10	15	10	7
1927	10	2	4	1	2	-	7	7	4	7	4	5	4	19	13
1928	9	7	6	6	7	7	14	10	7	6	6	9	5	5	7
1929	9	5	4	3	6	6	8	12	10	6	3	8	11	7	8
1930	8	4	3	8	2	9	10	16	9	9	11	4	6	2	10
1931	4	3	5	5	7	13	8	16	13	7	2	4	3	8	8
1932	5	5	1	15	9	4	13	14	16	6	5	7	6	4	9
1933	6	6	2	9	4	5	9	6	8	9	7	13	11	10	14
1934	9	6	8	5	7	8	8	9	10	8	8	13	1	8	4
1935	4	4	3	10	7	8	10	2	8	5	19	9	10	4	5
1936	7	4	5	9	4	7	13	9	14	9	8	6	10	7	4
1937	9	5	5	8	3	5	10	8	18	15	15	9	16	11	14
1938	15	12	15	13	6	4	8	14	19	14	11	10	9	19	14

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1899	12	17	9	11	11	6	16	8	-	3	4	4	5	5	6
1900	15	6	9	4	10	10	5	5	5	8	6	5	4	6	7
1901	15	18	12	5	3	10	6	5	11	7	5	6	7	8	16
1902	10	15	12	8	7	11	8	10	10	1	4	9	6	11	16
1903	13	19	7	19	9	9	15	12	7	6	7	6	8	6	13
1904	9	13	23	13	13	8	7	4	4	4	7	4	6	17	16
1905	9	14	14	12	4	5	10	5	6	8	6	3	6	11	8
1906	9	23	12	9	5	5	4	8	4	3	6	1	6	8	10
1907	12	7	10	13	9	11	8	2	5	5	2	2	6	3	6
1908	17	13	15	6	3	10	5	4	7	5	5	9	7	13	5
1909	9	13	9	17	5	11	3	1	4	3	2	7	3	12	9
1910	12	19	7	8	13	8	10	12	8	5	8	7	5	6	7
1911	10	15	16	11	8	6	6	7	7	4	4	5	4	16	10
1912	7	15	10	7	8	4	6	6	8	-	4	8	7	11	4
1913	13	14	19	16	16	3	5	5	4	3	9	10	4	9	6
1914	16	11	14	17	4	11	7	8	3	6	2	3	7	12	12
1915	9	9	23	6	2	8	4	3	4	3	3	5	11	8	10
1916	7	17	14	16	11	8	16	10	5	6	10	5	8	7	8
1917	19	11	15	8	10	8	7	8	3	5	8	2	7	12	14
1918	18	15	12	11	14	5	3	7	6	3	6	2	10	3	4
1919	9	18	10	17	9	6	10	2	10	6	9	4	3	9	12
1920	14	25	16	8	10	10	10	4	5	3	4	2	8	5	7
1921	18	21	11	9	11	5	8	11	4	6	3	14	6	10	
1922	10	11	9	14	11	9	7	6	5	2	5	1	3	7	11
1923	6	12	8	10	9	7	6	7	3	3	5	9	1	7	11
1924	7	14	12	11	7	3	8	9	7	8	2	8	3	3	2
1925	4	7	5	14	8	5	11	8	8	12	9	8	8	8	10
1926	5	8	18	10	9	11	12	5	2	9	2	4	4	7	8
1927	10	11	6	7	5	8	9	7	11	10	5	2	3	2	9
1928	5	13	20	10	5	6	9	4	6	6	5	7	4	10	11
1929	11	17	13	8	8	9	16	6	11	8	6	10	7	5	9
1930	11	23	9	9	13	13	12	9	6	15	7	14	7	5	7
1931	8	8	14	7	10	4	10	5	6	5	8	4	10	7	9
1932	7	18	12	9	12	6	4	6	5	11	5	11	10	5	2
1933	11	9	12	9	4	2	7	5	6	4	7	5	6	8	9
1934	14	20	16	8	9	9	8	3	5	8	7	12	7	5	4
1935	13	11	5	5	8	5	4	4	1	6	4	4	7	3	6
1936	6	13	11	3	7	5	7	4	6	6	11	5	13	5	5
1937	15	13	23	8	6	3	5	4	9	6	10	14	4	5	5
1938	17	14	16	22	9	11	5	12	6	9	9	13	7	5	7

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1899	11	9	17	9	14	9	13	4	10	7	10	16	13	5	15
1900	5	10	9	13	17	9	6	13	8	6	7	2	4	14	11
1901	7	11	10	11	15	12	7	5	5	5	4	3	9	3	15
1902	11	11	11	15	11	14	8	3	10	10	5	7	7	7	14
1903	13	11	10	14	12	13	8	9	9	7	9	7	9	7	8
1904	9	10	12	16	21	11	6	4	4	4	8	10	8	8	15
1905	13	12	9	8	12	8	6	6	10	7	6	10	5	7	10
1906	5	11	9	11	7	6	7	7	6	9	5	3	9	11	11
1907	10	7	12	12	14	10	14	14	11	7	13	7	11	12	7
1908	9	11	15	13	10	7	9	4	7	14	8	10	4	10	7
1909	7	3	5	7	8	8	6	7	5	7	12	6	8	8	10
1910	10	6	14	14	13	6	10	8	11	11	9	12	10	12	14
1911	8	9	16	11	9	11	4	10	5	14	11	12	5	5	10
1912	6	12	10	10	13	10	7	8	14	11	13	3	9	10	10
1913	8	13	8	11	9	13	10	5	2	17	11	10	14	15	20
1914	8	8	9	11	14	6	6	11	8	14	14	8	4	13	13
1915	8	6	8	12	9	11	8	7	10	12	9	6	10	7	11
1916	15	5	9	7	13	6	8	14	11	12	9	5	7	9	8
1917	11	7	9	9	6	8	12	13	7	5	7	6	10	8	14
1918	7	13	5	9	10	9	6	19	4	5	1	11	6	11	4
1919	9	9	7	5	5	6	7	5	6	7	6	11	12	7	7
1920	3	8	14	11	13	6	13	4	3	1	4	6	6	7	14
1921	6	7	6	9	7	1	12	3	3	6	13	12	8	8	14
1922	8	5	15	10	10	13	12	10	7	4	15	3	11	10	10
1923	8	12	13	15	10	11	9	11	8	7	11	6	5	9	13
1924	5	9	6	9	10	7	13	12	6	13	9	6	8	11	6
1925	8	9	9	11	16	7	9	9	4	9	9	9	13	3	13
1926	16	10	17	6	12	11	6	20	4	14	5	10	7	9	6
1927	4	9	16	9	12	10	7	13	15	10	13	9	6	8	7
1928	9	5	12	9	12	5	7	10	6	11	9	8	7	2	12
1929	9	7	7	11	14	11	8	8	6	6	8	9	5	9	13
1930	6	6	12	10	9	10	15	5	10	11	5	7	10	7	10
1931	4	1	6	7	10	9	7	9	7	8	5	7	5	7	10
1932	1	8	7	8	10	5	9	8	8	6	8	5	6	11	12
1933	6	10	6	6	7	12	7	4	2	9	11	3	10	5	8
1934	8	10	5	10	8	12	14	8	5	9	10	6	8	8	11
1935	4	6	9	13	5	13	10	10	6	9	6	4	4	6	6
1936	5	11	5	9	7	8	9	9	10	8	13	9	9	7	12
1937	3	4	4	8	9	6	3	4	7	12	6	9	9	6	6
1938	5	11	16	10	8	8	8	8	8	7	6	13	4	7	5

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN

No. Year \	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
Year	1899	8	10	13	9	18	14	8	8	8	4	6	9	11	6	9
1899	8	10	13	9	18	14	8	8	8	4	6	9	11	6	9	
1900	9	17	12	16	13	16	9	9	17	9	14	9	6	11	7	
1901	6	5	13	14	9	3	11	4	6	5	7	5	5	11	7	
1902	11	11	11	12	9	10	16	8	5	11	5	1	16	12	14	
1903	12	16	9	13	12	11	11	10	16	11	8	11	8	12	12	
1904	18	9	13	11	14	9	7	11	11	8	4	5	11	11	12	
1905	15	12	14	16	13	12	9	15	2	5	8	10	17	6	19	
1906	8	10	16	11	9	5	10	8	5	7	6	5	10	5	11	
1907	8	12	13	12	14	10	9	4	8	11	10	8	11	13	13	
1908	11	20	14	7	12	5	17	5	5	8	6	7	10	9	8	
1909	12	16	10	10	7	7	10	11	7	11	12	4	12	16	16	
1910	19	15	12	6	10	6	11	9	4	14	9	6	12	5	14	
1911	16	11	10	11	11	9	6	9	11	8	9	1	6	11	10	
1912	17	16	10	13	12	10	11	14	12	13	9	13	8	8	7	
1913	3	16	13	9	8	8	8	11	7	5	8	5	9	10	7	
1914	15	15	11	16	13	11	15	11	8	5	5	4	5	8	6	
1915	17	12	5	5	13	6	4	14	7	7	16	7	13	10	19	
1916	20	14	7	13	9	11	10	7	4	7	10	12	12	13	11	
1917	12	14	11	17	12	7	13	5	5	9	4	6	13	17	18	
1918	13	20	6	15	8	9	14	9	7	6	5	6	12	18	8	
1919	19	11	14	12	8	11	12	10	14	6	5	8	10	13	8	
1920	5	16	5	10	11	11	10	7	6	9	11	9	7	5	13	
1921	14	5	7	12	12	9	8	10	8	4	3	3	15	10	12	
1922	12	16	11	16	9	8	8	9	7	5	9	4	10	10	14	
1923	18	7	15	8	4	9	6	5	5	7	8	2	9	6	16	
1924	21	14	8	13	19	15	5	12	15	7	9	6	5	7	14	
1925	24	18	11	12	6	9	6	9	5	6	12	12	13	7	14	
1926	22	13	10	16	11	14	11	6	7	2	8	5	8	10	12	
1927	13	13	14	14	13	12	7	2	9	11	12	8	13	9	7	
1928	13	16	10	2	7	8	16	12	9	7	7	3	8	13	17	
1929	9	15	16	7	10	9	8	6	11	5	5	3	10	7	20	
1930	17	7	11	11	11	10	7	4	10	11	8	5	8	5	6	
1931	10	20	9	10	8	4	4	4	14	8	7	3	8	8	7	
1932	8	9	7	9	4	8	7	10	5	2	2	3	13	5	13	
1933	13	15	8	13	12	12	7	9	5	5	5	5	10	8	10	
1934	3	14	7	6	11	8	9	5	8	12	1	6	8	10	21	
1935	14	16	7	16	10	13	7	11	7	8	8	4	6	16	10	
1936	14	5	9	7	10	5	12	4	7	7	10	8	9	8	11	
1937	9	11	3	7	8	5	4	10	8	9	7	13	11	8	10	
1938	11	6	7	11	7	13	6	3	7	4	3	6	9	8	10	

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN

No. Year	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1899	6	13	15	14	14	9	16	16	11	7	3	2	7	8	1
1900	8	8	19	21	13	7	9	12	7	7	2	4	4	8	5
1901	4	10	13	7	12	7	7	9	12	6	8	5	2	4	5
1902	2	14	19	17	9	15	11	9	9	14	7	5	6	6	6
1903	7	12	20	17	10	11	17	8	3	8	5	6	3	9	3
1904	7	11	17	15	7	6	10	11	7	7	5	3	4	3	5
1905	8	6	19	17	10	11	3	9	7	3	3	7	5	4	6
1906	6	14	7	13	12	7	8	5	8	2	5	6	2	3	4
1907	11	14	11	11	13	18	6	9	9	4	4	7	8	5	8
1908	12	14	7	15	10	2	7	9	11	8	7	2	2	2	2
1909	10	13	12	19	13	7	12	11	11	6	5	2	3	1	9
1910	6	11	6	16	11	13	3	14	8	2	5	5	8	9	4
1911	8	10	11	11	11	12	11	3	5	4	5	11	3	6	6
1912	13	7	13	14	12	9	10	10	12	4	5	4	10	6	5
1913	9	12	11	8	13	7	10	6	4	1	2	6	4	4	6
1914	5	13	13	10	11	15	10	6	3	3	6	3	1	10	6
1915	12	13	14	18	17	11	15	14	10	7	5	8	6	3	2
1916	4	12	9	12	11	10	19	10	10	8	9	2	5	5	7
1917	12	11	14	17	15	9	11	5	5	7	3	3	2	3	2
1918	6	11	15	12	7	9	6	19	7	6	4	7	9	2	2
1919	4	12	10	10	10	16	16	10	11	5	6	4	6	7	6
1920	8	13	10	12	12	8	13	2	9	4	5	7	5	4	5
1921	5	13	7	19	13	5	11	9	7	3	4	7	1	5	5
1922	7	7	12	15	10	12	9	14	6	5	1	2	5	2	3
1923	15	12	13	8	14	12	4	4	4	4	4	4	3	2	5
1924	10	12	13	11	14	15	15	12	8	7	9	7	7	3	5
1925	10	15	13	6	12	10	8	9	7	5	1	1	5	1	9
1926	7	11	19	18	21	6	10	9	8	4	3	4	5	3	9
1927	3	21	21	9	17	9	4	11	7	9	11	9	2	4	7
1928	8	10	12	12	15	7	11	7	9	8	5	5	11	1	7
1929	13	10	9	9	12	10	5	11	12	6	6	3	5	3	3
1930	2	11	6	13	11	7	9	8	8	4	5	2	4	7	10
1931	9	6	10	17	10	8	15	12	13	9	7	6	6	5	5
1932	5	16	16	12	8	6	6	7	7	2	4	2	4	7	2
1933	9	10	19	17	8	9	8	12	8	7	2	3	3	2	2
1934	2	9	9	7	6	10	12	5	4	3	8	7	1	7	3
1935	4	7	8	19	4	13	15	5	2	6	1	2	2	2	3
1936	10	16	13	12	13	7	6	7	7	4	10	7	5	5	3
1937	12	13	8	9	5	6	9	6	9	7	9	8	6	6	7
1938	3	11	11	12	6	9	13	9	5	4	3	5	5	1	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
1899	6	5	8	5	9	17	8	12	8	16	7	10	5	10	2
1900	4	7	10	6	14	7	13	10	8	6	6	4	8	2	2
1901	8	8	6	3	19	14	15	14	12	12	5	3	5	2	2
1902	6	10	16	4	9	14	10	10	8	6	8	7	7	7	7
1903	7	17	7	2	7	13	8	8	5	8	7	5	2	1	-
1904	7	17	5	1	3	13	7	5	5	5	4	6	3	2	
1905	8	14	10	5	7	12	14	8	9	11	4	7	1	2	1
1906	10	9	3	5	16	15	6	7	7	12	6	3	5	4	2
1907	9	14	8	5	19	9	15	16	11	11	4	1	2	1	3
1908	8	10	5	4	8	12	5	11	4	1	2	9	6	3	6
1909	7	9	7	3	8	10	15	11	9	9	7	11	6	3	3
1910	4	9	8	3	15	16	11	10	6	7	7	6	2	2	4
1911	9	12	8	8	8	10	7	12	7	9	10	3	9	4	7
1912	5	7	11	9	17	14	9	11	7	6	3	4	1	7	2
1913	5	11	10	6	6	8	10	9	7	9	8	4	2	3	2
1914	6	12	4	8	10	12	9	11	5	4	2	3	3	3	2
1915	10	10	8	8	5	14	15	18	13	3	5	4	12	7	3
1916	12	6	5	10	15	13	15	19	10	11	11	4	2	5	4
1917	7	13	4	10	8	12	14	10	13	4	6	1	4	1	1
1918	12	6	8	7	15	16	10	6	8	11	4	5	3	5	2
1919	11	13	10	2	18	10	12	17	5	6	8	6	9	4	1
1920	12	16	6	11	14	7	12	13	10	5	7	5	6	3	-
1921	6	4	5	5	11	15	15	14	13	10	4	4	4	5	5
1922	3	9	5	5	12	7	11	15	7	10	3	1	3	3	5
1923	6	12	8	6	8	12	19	15	8	8	7	2	5	1	1
1924	8	7	10	6	11	9	9	10	9	6	14	5	3	2	2
1925	7	7	11	6	11	10	12	11	7	7	4	11	6	3	3
1926	13	8	12	5	13	19	9	9	5	11	8	9	1	4	4
1927	8	9	5	3	10	18	7	10	8	6	10	3	8	1	1
1928	8	14	9	7	11	9	7	8	13	9	6	3	3	9	7
1929	5	5	5	12	7	11	2	6	9	6	6	6	9	5	6
1930	5	7	4	5	9	9	10	13	9	6	5	2	5	4	8
1931	9	10	7	9	8	9	14	16	8	6	4	5	5	4	4
1932	5	6	5	4	12	11	11	13	7	3	4	4	2	1	2
1933	12	9	7	6	13	17	11	9	11	5	5	2	1	2	4
1934	9	9	2	7	9	10	10	18	6	11	3	4	3	3	1
1935	7	7	6	4	10	12	12	11	8	4	6	2	-	1	2
1936	6	13	7	6	8	8	4	10	5	5	7	2	11	7	7
1937	6	9	9	8	14	16	17	9	5	5	8	7	5	3	4
1938	15	10	5	5	14	11	12	11	5	5	4	3	3	1	1

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
1899	5	10	10	4	7	4	11	12	11	12	14	7	10	7	9
1900	6	5	8	4	1	6	6	15	13	10	7	6	3	4	4
1901	2	8	23	6	5	8	11	13	18	18	10	5	10	4	5
1902	6	6	25	4	4	4	16	11	12	5	10	7	7	11	9
1903	2	3	10	6	7	2	13	8	13	7	8	4	7	2	-
1904	3	9	12	6	9	5	10	7	10	9	8	3	6	2	5
1905	1	5	11	5	5	7	4	15	11	6	8	4	4	2	3
1906	-	-	2	6	3	4	6	16	4	11	7	3	8	4	5
1907	6	5	3	7	6	9	10	14	9	7	10	5	9	1	2
1908	6	2	11	-	4	1	9	9	6	10	5	6	8	7	7
1909	2	3	6	7	3	2	14	7	8	7	3	6	6	3	11
1910	8	7	4	5	4	11	8	18	12	4	9	9	2	1	3
1911	8	6	7	-	2	4	12	14	7	4	5	6	2	4	7
1912	1	1	4	8	6	2	4	7	7	4	5	6	1	2	1
1913	3	1	4	6	2	8	8	7	7	11	15	-	3	5	4
1914	1	1	4	5	2	7	14	16	4	6	10	3	6	1	3
1915	4	4	12	6	7	4	9	7	11	13	6	9	4	5	1
1916	5	3	8	5	9	7	10	16	6	7	13	3	6	3	3
1917	3	4	7	9	8	6	15	7	9	8	2	5	1	4	4
1918	-	-	6	9	2	10	7	16	7	8	11	4	12	5	2
1919	3	3	5	8	8	4	5	8	12	11	4	4	2	2	2
1920	3	-	6	5	3	5	10	6	9	12	6	2	1	1	1
1921	3	7	10	7	4	6	9	16	8	5	11	3	4	2	2
1922	5	-	4	4	2	7	12	9	9	7	7	5	4	2	3
1923	3	2	5	3	9	7	3	11	10	16	6	6	4	4	5
1924	1	3	4	8	6	8	18	11	10	16	7	7	4	2	5
1925	1	4	5	5	5	4	16	15	6	3	6	6	4	5	6
1926	6	4	9	6	8	3	12	14	16	5	11	7	7	4	5
1927	6	3	10	4	9	6	17	16	11	8	6	3	3	3	2
1928	6	3	6	6	3	2	7	11	14	6	7	5	4	3	8
1929	4	2	11	4	4	6	11	7	6	8	6	6	4	3	3
1930	2	1	12	6	1	2	13	10	11	6	7	3	5	2	3
1931	2	-	4	3	1	6	15	18	10	5	11	1	4	4	4
1932	6	5	6	5	9	6	7	6	6	9	10	7	1	7	4
1933	8	7	8	4	7	3	14	12	11	4	6	5	3	3	2
1934	6	2	8	1	4	6	8	13	10	10	10	4	6	4	1
1935	1	-	2	8	4	9	11	20	14	11	6	3	3	2	2
1936	5	5	1	5	2	5	15	7	4	4	5	6	1	3	3
1937	5	7	9	5	3	6	14	7	9	9	10	3	4	6	6
1938	3	4	5	4	4	7	17	15	7	8	3	3	3	4	3

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN

No. Year	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
1899	3	8	5	9	1	1	6	4	10	7	5	4	3	5	5
1900	4	4	2	4	5	5	12	3	6	5	5	5	-	1	3
1901	7	4	4	5	8	4	5	7	10	11	9	6	6	2	2
1902	3	1	6	4	4	7	3	7	2	4	7	6	6	2	5
1903	1	2	1	1	1	7	3	3	5	10	4	4	2	3	1
1904	5	10	7	2	6	13	-	2	4	3	3	3	2	2	-
1905	5	1	1	1	4	1	4	4	10	5	5	5	2	3	3
1906	5	8	4	4	3	4	5	3	11	5	6	2	5	3	3
1907	4	4	2	7	8	1	4	2	3	9	12	4	4	-	-
1908	4	2	1	8	7	8	4	4	9	5	5	2	5	3	4
1909	4	3	3	9	4	11	2	3	3	3	5	4	4	1	-
1910	-	1	-	5	1	-	3	5	4	4	2	1	1	4	6
1911	3	6	9	7	1	6	-	8	5	7	3	1	1	6	2
1912	1	3	1	2	3	3	3	3	6	13	4	2	6	2	7
1913	1	1	6	2	1	10	3	5	8	6	5	4	-	1	-
1914	3	2	1	1	2	19	3	7	5	5	5	4	4	2	2
1915	7	4	2	5	1	3	3	2	3	6	6	5	4	2	2
1916	5	5	2	4	1	5	5	6	2	2	7	4	4	2	5
1917	4	-	2	5	6	6	2	3	-	7	5	5	4	4	3
1918	1	2	2	3	7	14	2	7	7	8	9	6	5	4	5
1919	7	3	2	2	2	5	3	5	3	7	7	9	8	7	-
1920	4	2	1	1	6	8	4	4	7	9	4	4	2	2	1
1921	1	4	5	3	3	11	3	2	6	7	7	4	4	2	2
1922	2	1	2	3	3	3	4	6	3	5	7	7	4	4	1
1923	1	6	2	1	6	12	2	2	5	7	9	5	4	4	3
1924	2	-	4	5	5	14	3	4	13	9	9	5	4	4	1
1925	6	1	3	2	4	6	3	3	9	6	6	6	5	8	2
1926	7	4	4	1	1	10	9	5	4	6	9	2	1	3	2
1927	4	5	1	2	4	2	10	3	11	4	7	5	3	1	1
1928	-	1	1	1	4	2	2	3	3	3	7	5	5	3	2
1929	6	3	9	-	2	3	1	3	3	3	6	6	1	-	1
1930	2	1	1	-	-	3	3	1	6	7	6	6	5	5	2
1931	3	2	4	-	2	2	-	4	3	1	7	6	5	4	6
1932	4	3	5	2	2	4	2	2	3	2	7	7	5	4	2
1933	1	1	2	2	2	1	8	2	4	5	6	5	4	3	2
1934	3	1	2	-	1	2	6	2	3	4	9	7	5	4	2
1935	-	-	2	1	1	6	9	2	7	4	7	5	3	3	2
1936	5	2	3	3	3	1	2	8	2	12	6	6	6	5	2
1937	2	5	4	3	3	2	1	2	6	6	6	6	5	3	2
1938	3	1	-	2	2	2	2	6	2	6	4	4	3	2	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
1899	1	1	3	2	2	1	2	1	1	6	5	11	4	7	3
1900	2	6	4	4	2	1	2	1	1	8	5	3	5	5	2
1901	1	-	1	-	3	4	-	-	4	10	6	5	3	1	5
1902	3	1	5	4	2	3	3	-	1	4	1	3	-	1	3
1903	1	1	1	1	-	2	2	3	2	8	5	5	5	7	6
1904	2	1	1	5	4	2	5	3	9	2	3	3	5	5	1
1905	-	2	-	2	3	1	2	1	2	1	-	2	2	1	5
1906	7	-	3	-	1	2	2	-	-	6	6	3	3	4	1
1907	9	3	-	2	1	1	3	3	-	9	1	2	8	11	4
1908	-	5	-	1	1	4	-	1	1	1	1	3	4	11	2
1909	1	1	3	1	3	2	1	2	4	9	3	4	3	3	2
1910	5	2	2	3	-	-	-	-	-	3	1	1	1	3	5
1911	-	-	-	2	3	1	-	1	1	10	2	-	2	-	1
1912	3	-	1	1	2	1	2	1	1	3	13	5	2	2	1
1913	2	2	-	1	1	5	1	1	1	3	3	-	1	1	1
1914	-	1	-	1	1	1	3	1	1	2	10	1	2	-	1
1915	2	1	1	1	1	1	2	-	1	-	4	5	1	-	2
1916	2	2	1	-	2	1	3	-	1	1	2	4	2	1	2
1917	2	2	1	-	2	1	2	3	1	1	1	2	2	1	2
1918	-	2	2	-	1	1	1	-	1	1	8	5	4	2	2
1919	2	1	1	-	2	2	1	-	1	4	9	1	5	1	3
1920	-	-	1	-	-	-	-	2	1	-	5	5	3	3	2
1921	2	1	2	1	1	1	1	1	1	-	4	2	1	2	2
1922	2	4	2	-	1	1	-	1	-	2	6	10	2	1	-
1923	6	2	-	2	1	1	1	2	3	1	3	8	2	1	2
1924	-	2	-	2	1	1	2	3	1	1	3	10	2	6	2
1925	2	5	6	3	4	3	3	1	7	5	5	3	6	3	1
1926	2	2	3	7	4	2	1	3	7	4	2	2	6	2	4
1927	1	3	2	6	3	2	1	1	-	4	1	1	2	2	1
1928	-	1	1	1	1	2	2	2	-	5	3	3	6	3	1
1929	2	2	1	1	3	1	1	2	2	1	5	5	6	4	-
1930	1	-	-	1	4	1	3	2	2	11	5	-	2	3	3
1931	4	1	2	2	3	1	1	3	1	7	3	3	2	2	5
1932	5	2	-	4	2	2	2	2	1	6	4	4	1	2	4
1933	2	1	4	3	1	2	5	7	1	12	4	4	5	2	4
1934	-	2	4	2	1	1	5	7	1	14	4	4	5	2	4
1935	-	2	3	2	2	4	4	-	1	8	9	9	2	2	4
1936	-	2	2	2	2	4	6	-	1	17	3	3	2	1	3
1937	6	1	4	2	1	4	6	-	1	1	7	3	2	1	2
1938	2	4	1	1	1	1	2	3	2	4	2	4	4	1	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
1899	6	2	3	-	-	1	1	-	1	1	-	-	1	-	3
1900	1	1	1	1	2	5	5	-	1	-	-	-	6	3	3
1901	2	2	2	1	-	1	-	-	-	-	-	1	2	3	5
1902	2	2	-	1	2	3	-	-	-	-	-	-	1	1	-
1903	3	-	5	2	1	-	-	-	-	-	1	-	-	-	-
1904	1	3	2	1	1	-	-	-	2	-	-	15	2	3	3
1905	4	-	-	-	-	-	1	-	1	-	1	4	1	-	-
1906	5	3	6	8	5	2	6	-	1	-	1	1	3	8	1
1907	3	1	5	7	10	1	-	-	-	1	1	1	-	2	2
1908	1	1	1	4	2	2	-	-	1	-	1	1	1	1	2
1909	2	1	-	2	-	-	-	1	2	-	1	1	3	3	3
1910	4	1	4	3	1	-	4	2	2	-	1	2	1	4	1
1911	1	-	1	-	-	-	-	-	-	-	1	1	2	2	2
1912	-	2	-	1	2	-	-	2	-	4	-	-	2	1	-
1913	1	-	1	-	2	2	1	-	-	-	1	1	1	1	-
1914	1	1	-	-	-	-	-	-	1	-	8	-	-	-	-
1915	2	-	2	-	1	-	2	-	-	-	-	-	4	5	1
1916	1	-	1	1	-	-	1	-	1	-	-	1	5	2	7
1917	1	4	2	-	1	-	-	2	-	-	-	-	2	2	-
1918	-	-	2	1	-	-	-	-	-	-	-	-	2	-	-
1919	-	-	-	-	-	1	-	2	-	-	-	-	1	2	4
1920	-	-	-	-	-	-	-	-	1	1	1	-	3	-	-
1921	1	-	-	-	-	-	-	-	1	-	-	-	2	1	-
1922	1	1	-	-	-	-	-	-	-	-	-	1	3	4	-
1923	2	1	3	2	1	-	-	1	-	-	-	-	1	-	2
1924	-	-	-	-	-	-	-	-	-	-	1	6	4	1	-
1925	-	4	2	1	-	2	1	1	1	-	1	4	-	-	1
1926	3	2	3	3	1	2	3	1	1	1	-	9	2	4	4
1927	2	1	3	1	1	-	3	-	-	-	-	6	1	1	3
1928	-	-	3	-	-	-	-	-	1	-	-	4	-	1	4
1929	2	1	3	1	-	-	-	1	-	-	1	8	-	1	3
1930	1	2	1	-	-	-	1	-	-	1	-	1	-	-	-
1931	1	2	1	1	-	-	1	-	-	-	1	-	1	1	2
1932	1	3	5	2	-	1	2	-	-	1	-	11	-	1	3
1933	1	-	1	-	3	1	-	-	-	-	1	5	6	7	1
1934	1	1	-	2	-	-	-	-	1	-	-	4	3	3	1
1935	2	-	1	3	-	2	4	1	1	-	-	4	-	1	3
1936	1	2	3	1	1	1	4	-	-	-	11	2	1	1	1
1937	1	2	-	3	2	1	-	-	-	-	2	-	-	-	1
1938	-	-	-	1	1	3	3	-	1	-	-	5	1	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
1899	7	3	1	1	1	-	1	-	-	-	-	-	4	4	
1900	2	5	4	-	2	-	1	-	1	-	-	-	1	6	
1901	3	4	2	1	-	-	-	1	-	-	1	-	-	-	
1902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1903	3	1	3	1	1	1	2	-	-	-	-	-	4	2	
1904	-	1	-	-	2	1	1	-	-	-	-	-	-	-	
1905	2	-	-	2	-	-	-	-	-	-	-	-	-	-	
1906	1	3	3	-	1	1	1	-	-	1	-	-	-	-	
1907	1	1	1	3	-	-	1	-	1	-	1	-	4	11	
1908	3	-	-	1	2	1	2	-	-	-	-	-	-	1	
1909	1	-	-	-	1	-	-	-	2	-	-	-	-	1	
1910	1	-	3	1	-	1	1	-	-	-	-	-	-	-	
1911	2	-	-	1	2	1	-	-	-	-	-	-	-	-	
1912	1	1	-	-	1	-	1	-	-	-	-	-	-	-	
1913	-	1	1	-	-	-	1	-	-	-	-	-	-	-	
1914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1915	1	-	-	1	2	-	1	-	-	-	-	-	-	-	
1916	1	6	2	-	-	-	-	-	-	-	-	-	-	-	
1917	-	-	1	1	-	-	-	-	-	-	-	-	-	-	
1918	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
1919	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
1920	-	-	3	1	-	-	-	-	-	-	-	-	-	-	
1921	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
1922	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1923	-	1	2	-	1	-	1	-	-	2	-	-	-	1	
1924	1	5	-	-	-	-	-	-	3	-	-	-	-	2	
1925	-	-	1	-	-	-	-	1	-	-	-	-	-	1	
1926	1	3	3	4	-	2	1	-	-	-	1	-	-	2	
1927	-	1	2	1	4	1	-	-	-	-	-	1	-	2	
1928	1	-	-	1	1	1	-	-	-	-	-	-	-	1	
1929	-	3	2	2	1	1	-	-	-	-	-	-	-	3	
1930	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
1931	-	-	-	-	1	-	1	-	-	-	-	-	1	-	
1932	4	3	-	1	2	2	1	-	-	-	-	-	-	-	
1933	2	3	3	-	-	-	-	-	1	-	-	-	-	1	
1934	3	3	3	-	-	-	-	-	2	-	-	-	-	5	
1935	2	5	-	-	-	1	-	-	-	1	1	-	-	-	
1936	1	1	2	3	4	-	1	-	1	1	-	-	-	-	
1937	-	-	-	4	5	1	3	-	1	-	-	-	-	1	
1938	1	-	1	1	2	-	1	-	1	-	-	-	-	2	

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
1899	1	3	2	9	3	3	3	-	-	1	-	2	1	4	-
1900	-	2	1	-	-	-	3	-	-	-	1	-	1	-	-
1901	5	4	1	9	4	-	2	3	2	1	1	1	3	1	-
1902	3	4	2	-	-	-	-	1	-	-	-	-	-	-	-
1903	1	1	2	3	4	2	1	2	-	-	2	1	-	-	-
1904	-	4	5	4	-	-	-	-	-	-	-	-	-	-	-
1905	2	-	1	-	-	-	-	2	-	-	-	-	-	-	-
1906	2	4	3	5	1	1	2	2	1	-	2	1	-	-	-
1907	1	1	-	-	-	1	1	1	-	2	-	1	-	-	-
1908	1	4	-	3	3	1	-	-	-	-	-	-	1	1	-
1909	4	5	2	2	3	-	-	-	-	-	-	-	2	-	-
1910	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	2	1	-	2	-	-	1	1	1	-	-	-	-	-
1912	-	3	10	1	2	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	2	-	-	1	-	1	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	3	6	2	2	1	-	-	-	1	-	-	-	-	-	-
1916	5	5	6	3	2	4	-	1	1	-	-	-	1	-	-
1917	2	4	1	2	1	1	-	2	-	-	-	-	1	-	-
1918	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	3	2	-	-	1	-	-	-	-	-	-	-	-	-	-
1920	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	9	9	-	-	2	-	-	-	-	-	-	-	-	-	-
1922	4	5	-	-	-	-	-	-	-	-	-	-	1	-	-
1923	2	2	-	-	-	-	1	-	-	-	-	-	1	-	-
1924	9	9	4	-	1	1	1	-	-	-	-	4	4	4	-
1925	1	3	-	1	-	-	-	-	-	-	-	-	2	1	-
1926	6	12	1	-	2	2	1	2	2	1	-	-	1	1	3
1927	2	4	-	-	1	-	2	2	6	3	-	1	1	4	-
1928	-	4	-	2	3	-	-	-	-	-	-	-	-	-	-
1929	4	5	-	-	-	-	-	-	-	1	-	1	1	-	-
1930	2	1	1	1	2	-	2	-	-	-	-	-	-	-	-
1931	6	8	1	1	1	-	-	-	-	-	-	-	1	1	-
1932	3	2	-	-	2	3	1	-	1	-	-	-	-	-	-
1933	4	5	8	3	1	3	4	-	2	-	1	-	1	-	1
1934	3	-	2	-	-	2	-	-	-	-	-	-	-	-	1
1935	-	2	5	-	1	1	-	-	-	-	-	-	1	-	-
1936	-	1	-	-	-	-	-	1	1	-	1	-	1	-	-
1937	-	1	1	-	-	-	2	1	1	-	-	-	1	-	-
1938	2	5	4	1	-	-	-	-	-	-	-	-	2	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
1899	3	10	6	8	3	2	1	-	1	-	3	3	4	2	5
1900	-	1	6	-	-	-	-	-	-	-	-	-	-	-	1
1901	-	2	3	2	1	2	2	-	3	4	5	3	3	4	7
1902	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-
1903	5	16	19	-	-	1	1	-	2	1	1	-	-	-	-
1904	-	1	3	-	-	2	1	1	1	-	-	2	-	-	-
1905	-	-	2	1	-	1	-	-	-	-	-	-	-	-	-
1906	1	-	-	1	1	1	-	2	-	1	1	-	2	3	1
1907	-	5	21	3	2	4	1	-	-	1	1	-	-	-	1
1908	-	-	3	-	3	1	1	-	1	1	3	2	1	2	1
1909	-	-	15	2	7	5	-	-	1	-	1	1	-	2	1
1910	-	-	-	1	7	1	-	-	-	-	-	-	1	1	1
1911	-	-	-	3	3	4	1	2	1	-	-	-	-	-	-
1912	-	-	-	1	-	3	-	2	-	-	-	-	-	-	-
1913	-	-	-	1	1	-	3	1	-	-	-	-	1	-	-
1914	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-
1915	-	-	-	1	1	3	2	-	-	-	1	-	-	-	-
1916	-	1	-	5	5	-	-	2	3	1	-	1	-	-	-
1917	-	-	2	1	1	-	-	2	-	-	-	1	2	1	1
1918	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1919	-	1	3	-	-	-	-	-	1	-	-	-	-	-	-
1920	-	-	-	1	1	2	-	1	-	-	-	-	-	-	-
1921	-	-	-	1	1	-	1	-	1	1	-	-	-	-	-
1922	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
1924	1	-	-	3	15	10	9	2	-	-	-	1	-	1	1
1925	-	-	-	3	2	-	-	-	-	-	-	-	-	-	-
1926	-	2	3	3	5	2	-	-	-	3	1	1	-	-	-
1927	-	-	-	7	21	5	1	3	-	-	2	2	3	5	3
1928	-	-	-	3	3	1	2	-	2	-	1	-	1	-	1
1929	-	-	2	3	11	2	-	1	-	-	1	3	-	-	1
1930	-	-	-	-	7	2	-	-	-	-	-	1	-	-	-
1931	-	-	-	3	10	2	3	-	-	-	-	-	1	-	-
1932	-	-	-	1	7	7	3	3	1	-	-	-	-	-	-
1933	-	-	-	2	2	21	6	-	2	-	-	-	-	-	1
1934	1	-	-	-	3	3	1	-	-	-	-	-	-	-	-
1935	-	-	-	-	7	5	3	1	-	-	-	1	-	-	-
1936	-	-	-	-	6	14	6	4	2	-	-	1	1	2	1
1937	-	-	-	1	3	8	2	2	1	-	-	1	1	-	1
1938	-	-	-	2	5	3	2	2	1	-	-	-	-	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN

No. Year	211	212	213	214	215	216
1899	10	5	-	-	2	-
1900	1	3	-	-	-	-
1901	9	3	2	1	5	1
1902	-	-	-	-	-	4
1903	-	1	-	3	5	22
1904	1	-	-	1	1	1
1905	-	-	-	-	-	-
1906	2	-	-	-	-	-
1907	2	-	-	5	5	12
1908	3	-	1	-	-	-
1909	2	-	-	-	-	1
1910	-	-	-	-	1	-
1911	-	-	-	-	-	1
1912	-	-	-	-	17	7
1913	1	-	-	1	5	2
1914	-	-	-	-	-	-
1915	-	-	-	-	6	8
1916	1	2	-	-	-	-
1917	-	3	-	-	4	2
1918	1	1	4	-	-	-
1919	1	-	-	-	1	9
1920	-	-	-	-	-	-
1921	-	-	1	-	-	-
1922	1	-	-	1	-	1
1923	-	2	-	1	-	-
1924	6	9	1	-	-	-
1925	1	1	-	-	-	-
1926	-	-	2	-	-	-
1927	4	4	-	-	-	-
1928	-	-	-	-	-	-
1929	3	3	4	-	-	-
1930	-	-	-	-	-	-
1931	-	-	-	-	-	-
1932	-	2	-	1	1	-
1933	1	1	-	2	-	-
1934	-	-	-	-	-	-
1935	1	8	2	-	-	-
1936	1	1	1	-	-	-
1937	4	3	-	-	-	-
1938	-	3	-	-	-	-

FREQUENCY

OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE 990 mb. OR GREATER

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1899	-	-	3	3	6	5	6	11	4	4	1	4	9	3	6
1900	3	2	2	1	5	4	6	12	3	3	2	7	2	4	-
1901	4	6	3	4	3	7	10	6	3	4	2	8	9	5	5
1902	2	2	3	3	5	9	13	9	2	1	1	9	1	3	2
1903	3	2	2	5	6	8	21	8	-	1	3	2	4	3	3
1904	11	8	10	5	8	10	3	3	1	3	6	4	3	2	8
1905	2	5	4	2	2	13	9	11	2	-	2	5	4	2	7
1906	1	-	1	2	-	9	27	22	4	4	4	7	5	9	8
1907	-	-	-	3	5	4	17	17	6	3	4	3	7	7	4
1908	-	1	-	3	3	13	14	9	4	1	1	9	3	5	2
1909	1	2	-	-	2	4	20	16	5	8	7	5	7	8	1
1910	1	3	2	2	2	6	11	12	3	7	1	5	1	6	4
1911	1	3	-	4	1	9	10	12	3	2	2	1	7	3	4
1912	1	1	1	3	2	6	6	10	1	2	1	2	4	2	1
1913	-	1	2	1	6	12	16	11	3	1	6	5	2	2	3
1914	1	1	-	1	6	6	9	25	5	1	4	16	3	4	5
1915	3	1	2	-	5	13	10	20	-	2	2	11	10	5	3
1916	-	2	1	2	4	13	10	12	-	1	4	8	5	2	2
1917	2	1	9	2	5	12	18	14	-	1	6	2	5	3	1
1918	5	4	4	7	4	1	8	9	7	1	3	9	8	5	2
1919	3	1	3	1	4	6	7	9	5	7	2	5	4	9	9
1920	2	2	-	4	2	6	9	11	-	2	2	5	5	6	6
1921	-	-	2	1	3	5	5	12	3	1	4	10	6	6	5
1922	1	1	1	1	5	2	18	13	1	2	2	7	6	8	6
1923	-	1	5	4	4	8	13	4	4	5	6	4	5	4	3
1924	-	-	-	-	4	8	14	10	3	3	6	5	2	3	4
1925	2	4	4	5	7	12	14	10	6	1	10	10	7	5	3
1926	1	2	4	2	-	6	5	8	3	2	3	3	4	4	3
1927	1	2	2	2	6	6	14	9	5	4	5	4	7	1	6
1928	3	2	3	3	4	12	17	20	11	2	2	-	-	-	-
1929	1	4	5	2	2	4	9	9	6	2	-	2	-	3	8
1930	1	4	3	2	4	-	3	6	3	1	2	3	7	3	6
1931	3	4	1	3	2	5	5	13	4	1	2	1	3	4	6
1932	2	4	3	3	3	2	17	19	5	1	6	6	4	3	4
1933	1	7	3	6	7	7	8	9	2	5	3	5	3	5	4
1934	3	5	7	10	5	6	10	8	4	2	1	-	5	5	2
1935	3	4	3	7	4	5	9	14	3	4	1	1	1	4	6
1936	4	4	4	6	6	6	13	8	5	-	1	6	5	4	4
1937	2	3	4	5	8	4	7	9	2	1	3	4	2	3	4
1938	6	1	5	6	9	12	6	9	4	1	6	4	3	9	6

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1899	1	1	2	1	2	5	2	3	5	6	13	6	4	6	4
1900	2	2	-	6	9	7	7	8	3	12	16	6	2	3	4
1901	3	4	2	10	8	6	4	5	4	2	5	2	9	5	9
1902	5	3	3	9	5	6	6	1	5	5	9	5	6	6	5
1903	-	2	1	9	4	7	3	5	3	8	9	1	6	5	2
1904	6	4	4	16	5	4	4	5	4	9	17	8	5	8	9
1905	6	1	3	8	5	6	5	6	4	13	5	6	4	3	-
1906	-	4	2	1	-	3	-	6	6	2	12	7	4	4	2
1907	2	1	3	8	3	2	4	2	6	6	11	7	2	-	6
1908	4	1	4	-	-	4	1	1	10	7	10	9	4	4	4
1909	7	2	2	2	2	-	-	3	2	13	19	4	-	-	5
1910	3	1	1	1	2	7	1	3	7	11	17	6	3	3	3
1911	2	3	3	3	1	3	3	5	6	5	21	10	6	9	4
1912	4	3	4	-	5	2	3	4	5	10	23	10	5	5	4
1913	3	4	2	3	-	2	3	5	2	15	19	9	5	14	3
1914	3	1	2	4	1	1	3	4	-	10	26	8	4	5	7
1915	3	6	4	2	-	1	6	2	4	9	13	5	4	3	7
1916	3	3	6	9	5	6	4	3	5	11	20	2	6	11	9
1917	2	3	5	8	7	2	4	7	2	17	8	6	4	7	11
1918	2	5	3	12	4	3	6	4	3	4	11	6	5	6	3
1919	4	5	7	7	8	5	2	7	11	8	19	6	3	5	3
1920	3	6	2	4	6	3	3	6	3	5	6	5	8	3	4
1921	4	7	2	5	3	1	2	3	2	14	15	10	6	9	12
1922	7	5	5	2	1	4	4	2	2	11	15	8	6	5	2
1923	8	7	5	6	3	2	2	6	2	6	19	2	7	5	5
1924	9	5	9	3	2	2	5	3	2	6	4	3	2	5	4
1925	6	4	8	2	4	11	6	3	1	5	8	3	6	6	4
1926	4	-	1	1	2	3	2	1	4	5	7	7	9	4	5
1927	4	2	2	1	2	6	1	3	4	5	4	2	3	11	7
1928	4	3	4	6	7	6	12	8	6	3	3	2	2	6	2
1929	5	3	2	3	6	4	7	10	9	6	2	5	5	4	7
1930	3	2	2	8	1	8	10	11	7	9	9	3	2	1	6
1931	3	2	2	5	7	10	8	10	10	5	1	2	2	3	3
1932	4	4	-	12	7	2	11	8	14	5	4	5	5	6	3
1933	4	3	2	9	4	5	5	6	6	7	5	4	7	5	8
1934	5	-	5	5	7	6	6	5	8	5	4	7	7	1	4
1935	3	3	2	10	7	8	8	1	6	4	16	5	7	2	4
1936	6	4	2	7	4	7	11	8	11	7	15	6	6	6	3
1937	9	4	4	7	3	5	2	6	5	15	12	7	8	7	8
1938	6	7	6	10	6	8	2	11	17	12	7	5	7	14	8

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1899	11	15	6	7	5	3	16	8	-	3	3	4	5	1	5
1900	8	-	7	3	7	9	5	5	5	7	6	4	3	6	3
1901	11	9	10	2	1	7	5	5	10	7	4	6	6	8	14
1902	7	13	6	8	4	7	7	12	6	6	1	4	8	6	11
1903	6	10	2	9	5	3	14	12	6	6	5	6	6	4	6
1904	6	9	11	10	5	5	7	4	4	4	6	4	5	14	12
1905	4	9	5	9	3	2	9	5	6	7	6	3	4	9	7
1906	5	13	7	4	2	1	4	8	4	3	6	1	5	8	6
1907	8	3	5	9	8	9	8	2	5	5	2	2	6	3	5
1908	9	5	10	3	-	4	5	4	7	5	5	9	6	12	4
1909	6	8	1	10	2	6	3	1	4	3	2	7	2	12	5
1910	7	7	3	1	8	3	10	12	8	5	8	7	5	5	6
1911	4	5	8	6	2	4	6	7	4	4	4	8	7	12	9
1912	5	8	4	3	2	4	6	6	8	4	4	8	7	7	3
1913	5	8	8	11	9	-	5	5	4	3	9	10	4	5	6
1914	6	3	7	9	2	3	7	7	3	5	2	2	5	9	9
1915	7	7	9	5	2	7	4	3	4	3	3	5	10	6	3
1916	5	7	5	4	5	5	16	10	5	6	10	5	8	6	5
1917	13	8	14	7	7	7	7	8	3	5	6	2	6	7	9
1918	11	5	5	6	9	4	3	7	6	3	6	2	10	3	4
1919	7	11	4	11	5	3	9	2	10	5	9	4	3	8	8
1920	8	10	9	6	5	7	10	4	4	3	4	2	8	4	3
1921	11	10	6	7	6	3	7	11	4	4	6	3	11	5	5
1922	8	5	5	7	9	7	7	6	5	2	5	1	2	5	9
1923	4	5	5	6	3	4	6	7	3	3	4	9	1	6	8
1924	6	11	7	10	4	3	7	9	7	8	2	8	3	3	-
1925	4	5	4	9	3	4	11	8	8	11	9	7	6	8	7
1926	4	4	14	4	4	6	11	5	2	8	2	4	4	2	5
1927	5	5	5	3	4	3	9	7	11	10	5	2	3	2	8
1928	2	2	10	1	2	3	9	4	6	6	4	7	3	6	8
1929	7	7	9	5	4	4	15	6	10	8	6	6	6	4	4
1930	7	13	6	3	5	10	12	9	5	14	5	14	6	5	6
1931	4	6	9	5	6	4	10	4	6	5	8	3	9	4	9
1932	1	9	10	5	6	5	3	6	5	10	4	10	6	4	2
1933	9	8	8	6	3	2	6	5	6	3	7	4	3	8	7
1934	8	10	10	6	5	8	7	2	4	7	6	9	7	4	4
1935	12	7	4	2	5	2	4	3	1	6	4	3	5	3	3
1936	6	11	10	3	4	2	7	4	5	4	9	5	10	5	4
1937	6	11	19	7	3	3	5	4	6	6	8	12	2	3	3
1938	13	5	6	15	5	5	5	11	5	6	7	13	6	4	6

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1899	7	6	11	8	9	6	7	3	6	7	10	16	13	5	14
1900	3	7	8	10	13	8	2	12	4	6	7	2	4	14	8
1901	5	8	7	9	12	4	4	2	2	4	3	3	9	3	15
1902	8	7	6	11	9	7	8	1	7	10	5	7	6	7	13
1903	8	7	6	9	10	10	4	4	2	7	9	7	9	7	7
1904	6	8	8	10	15	9	3	2	2	4	8	10	8	7	14
1905	8	7	8	6	7	5	3	3	6	7	5	10	5	6	9
1906	4	10	9	6	6	4	6	4	5	9	4	3	9	11	10
1907	7	7	9	10	10	8	11	10	9	7	12	7	11	12	7
1908	2	11	8	7	5	5	5	4	5	14	8	4	8	8	7
1909	5	3	4	7	6	7	6	6	4	7	11	5	5	8	10
1910	8	3	11	9	13	5	8	5	9	11	9	12	10	11	13
1911	5	5	12	4	9	6	3	6	5	14	11	12	5	5	8
1912	5	7	5	5	8	6	4	5	11	11	13	3	9	10	9
1913	4	10	4	8	5	9	8	4	1	17	11	10	13	15	15
1914	3	4	7	8	8	1	4	6	8	14	14	8	4	12	12
1915	4	5	6	11	6	7	5	2	4	12	9	6	10	7	10
1916	11	1	7	2	11	4	5	8	6	12	9	4	7	8	4
1917	9	6	8	9	5	7	12	10	4	5	7	6	10	7	14
1918	5	10	3	5	7	8	6	14	4	5	1	10	6	9	3
1919	8	8	7	3	4	3	4	3	4	7	5	10	12	7	7
1920	2	6	7	10	7	2	11	2	3	6	2	6	6	6	13
1921	5	3	5	8	4	1	9	3	2	13	10	8	8	8	13
1922	7	4	10	5	6	8	7	6	5	4	14	3	11	9	9
1923	5	5	6	10	5	6	4	6	7	7	10	6	4	9	11
1924	3	6	4	7	7	4	9	9	5	13	8	5	8	11	5
1925	5	7	6	8	11	2	6	3	4	9	9	9	12	2	6
1926	8	6	8	1	7	9	4	13	2	13	5	9	7	9	6
1927	2	4	9	7	6	4	4	9	9	10	12	9	6	8	4
1928	4	3	7	5	7	5	6	5	4	4	6	8	7	2	11
1929	7	5	7	5	8	9	6	5	4	6	8	9	5	9	11
1930	2	4	10	10	5	6	11	5	6	11	4	7	9	7	8
1931	1	1	4	3	6	6	6	5	7	8	5	5	5	7	9
1932	-	6	4	3	4	3	4	4	7	6	5	5	5	11	12
1933	5	5	4	3	5	9	6	4	1	9	10	3	10	5	7
1934	6	5	1	6	2	10	9	5	1	9	10	6	7	6	11
1935	3	4	8	9	2	8	6	8	6	8	6	4	4	5	6
1936	5	9	2	4	5	5	4	6	6	6	6	11	6	6	9
1937	1	2	3	4	4	5	1	2	5	11	5	9	9	5	5
1938	4	6	10	7	6	3	6	6	4	6	5	13	4	5	4

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
1899	7	9	10	7	15	10	5	4	5	3	5	7	10	6	9
1900	8	17	11	13	8	12	6	5	15	6	12	9	6	11	7
1901	6	5	13	12	5	1	6	2	3	3	5	4	5	10	7
1902	11	10	9	8	9	8	11	6	3	6	3	1	15	12	14
1903	9	11	8	7	8	6	9	7	9	8	5	11	8	11	11
1904	16	8	10	10	9	8	7	10	6	8	3	4	11	11	11
1905	13	11	11	14	10	9	5	9	1	1	5	9	16	6	19
1906	6	10	14	10	8	4	9	7	5	6	4	4	9	4	11
1907	7	10	13	9	9	9	7	4	7	7	8	5	11	12	12
1908	9	17	11	4	10	3	10	3	4	7	5	7	9	9	8
1909	11	14	9	8	6	5	10	10	3	7	10	3	11	16	14
1910	14	14	12	6	8	5	8	7	4	9	6	4	12	5	14
1911	13	7	8	8	8	8	3	7	10	6	2	1	6	9	10
1912	14	11	7	9	9	6	7	6	6	8	7	12	8	8	7
1913	3	14	11	6	5	7	6	3	5	6	5	5	9	10	7
1914	12	14	6	11	7	7	8	5	4	3	3	2	5	8	5
1915	14	12	3	3	9	6	4	9	4	3	9	7	13	10	17
1916	17	11	5	10	5	9	7	7	4	5	4	8	12	13	11
1917	11	11	9	14	10	4	12	5	3	7	4	5	12	17	16
1918	7	14	5	11	5	5	11	9	7	4	5	6	12	16	8
1919	16	7	12	8	6	6	8	8	10	4	3	7	10	13	8
1920	4	12	4	9	7	5	6	5	4	7	9	9	5	5	13
1921	11	4	7	8	10	9	6	9	7	4	3	2	15	9	12
1922	9	15	9	12	3	4	6	5	5	3	9	2	9	10	14
1923	13	5	12	5	3	4	3	3	2	6	4	1	9	5	14
1924	16	11	7	12	11	6	4	4	9	4	9	6	5	7	14
1925	18	17	6	8	4	4	2	4	3	5	11	8	13	7	13
1926	12	8	7	13	10	8	9	4	4	1	6	5	8	10	12
1927	10	12	12	9	8	8	2	2	7	7	7	7	13	8	6
1928	9	13	9	1	5	4	7	8	8	4	5	2	8	13	15
1929	8	7	12	7	9	6	3	4	7	4	5	3	10	7	17
1930	13	5	10	7	8	6	2	3	7	7	6	4	8	5	5
1931	8	16	9	7	4	4	3	2	13	5	6	3	8	8	7
1932	4	4	5	6	3	7	4	7	5	2	2	2	13	4	13
1933	7	3	4	11	5	9	6	7	5	4	3	5	9	8	10
1934	2	12	6	4	9	6	3	5	5	7	1	4	8	10	20
1935	10	10	6	11	7	9	4	6	2	6	6	4	6	14	10
1936	9	3	8	5	6	3	9	4	6	6	7	6	9	8	11
1937	7	6	2	6	6	5	3	8	6	4	3	8	10	8	10
1938	10	5	5	10	5	12	5	2	3	3	3	4	8	7	10

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1899	6	12	12	14	12	9	10	13	7	5	2	1	6	8	1
1900	7	7	13	19	12	5	7	11	6	6	2	4	4	8	5
1901	3	9	11	4	8	3	7	7	8	3	8	5	2	4	4
1902	2	12	15	15	6	14	9	8	8	14	6	5	6	6	6
1903	7	9	17	15	9	8	14	6	3	7	3	4	2	7	3
1904	7	11	13	11	6	4	10	6	6	6	4	3	3	2	5
1905	7	6	18	13	9	11	2	8	5	3	1	6	4	4	5
1906	6	13	6	13	10	5	8	5	5	1	3	5	2	3	3
1907	11	13	10	11	9	16	5	8	8	4	4	5	5	7	7
1908	9	9	4	12	9	2	6	7	8	5	6	7	2	1	2
1909	10	12	10	14	10	5	10	8	9	5	5	1	2	1	8
1910	6	11	5	14	10	12	2	10	8	-	4	4	8	8	4
1911	8	6	9	8	8	11	6	3	5	2	5	11	2	6	6
1912	11	6	12	14	8	7	3	6	9	3	3	4	7	5	5
1913	9	9	9	7	12	3	8	6	4	-	1	3	3	4	6
1914	5	12	11	9	10	12	7	3	2	1	6	3	1	8	5
1915	12	13	13	14	9	8	12	12	6	7	4	8	6	3	2
1916	4	10	5	11	8	9	9	18	9	6	2	9	8	3	5
1917	11	11	12	15	12	6	10	5	5	7	3	3	2	3	2
1918	5	11	13	9	7	7	5	12	7	5	4	6	8	1	2
1919	4	11	10	10	9	8	14	7	5	5	5	4	4	6	5
1920	8	11	7	10	12	7	10	1	6	3	3	6	4	3	3
1921	5	13	7	14	11	4	8	7	5	3	4	7	1	1	5
1922	7	6	12	10	9	10	8	9	5	3	1	2	5	2	3
1923	15	10	13	6	11	7	3	3	4	2	3	2	2	2	4
1924	9	11	12	7	11	13	13	7	6	4	7	6	5	2	5
1925	9	13	13	4	11	8	5	6	5	3	1	-	5	-	6
1926	7	9	17	14	16	4	7	8	3	4	2	3	4	3	8
1927	3	20	17	7	13	7	3	7	5	9	9	8	2	4	7
1928	8	7	11	10	14	5	10	5	6	6	4	4	10	1	5
1929	12	9	6	7	10	6	4	4	9	6	5	1	5	3	3
1930	1	10	5	11	8	6	8	8	8	3	5	2	2	5	9
1931	8	6	8	14	9	6	12	9	9	8	5	6	5	4	4
1932	5	15	12	10	5	5	4	6	6	-	3	2	4	7	2
1933	8	9	11	15	7	8	6	9	5	7	1	3	1	2	1
1934	2	8	7	6	5	7	9	5	3	3	7	4	1	6	3
1935	4	7	5	18	4	12	14	4	1	6	1	2	1	3	3
1936	8	15	13	9	11	4	5	5	4	3	6	3	5	4	3
1937	12	12	8	8	4	5	6	3	3	4	5	4	5	6	6
1938	3	11	9	10	5	8	11	7	2	4	4	4	4	1	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
1899	6	5	8	5	8	15	7	12	6	15	6	10	5	10	2
1900	4	7	10	6	10	7	10	9	7	6	5	3	8	1	2
1901	8	8	6	3	18	11	14	12	10	11	5	3	3	4	2
1902	5	9	16	4	7	14	10	7	8	6	8	12	7	6	5
1903	7	16	7	2	6	12	6	8	5	7	7	5	4	2	1
1904	7	17	5	1	3	6	11	7	4	4	4	6	3	2	-
1905	8	14	10	5	6	12	13	7	7	9	4	6	1	1	1
1906	10	9	3	5	15	14	6	7	7	12	6	3	5	4	4
1907	9	14	8	5	18	9	14	16	11	11	4	3	2	1	2
1908	7	9	4	4	7	10	4	10	4	4	1	2	8	3	5
1909	6	9	6	2	6	10	12	10	8	7	4	9	4	2	6
1910	4	9	8	3	15	15	9	10	6	6	7	6	2	2	4
1911	9	12	7	7	8	9	7	10	7	9	3	3	4	4	7
1912	5	7	11	9	17	14	8	8	3	6	3	2	1	5	1
1913	5	11	9	6	6	8	10	9	6	9	8	2	2	3	2
1914	6	11	4	7	10	10	9	8	5	3	2	2	3	2	2
1915	9	10	8	7	4	13	13	15	9	3	4	11	6	3	3
1916	12	6	5	8	13	12	15	16	8	7	10	2	4	4	3
1917	7	13	4	9	8	12	11	9	11	4	5	1	4	2	1
1918	12	6	8	7	15	14	8	5	8	9	5	5	5	3	1
1919	10	13	10	2	17	10	10	16	4	5	7	5	8	2	1
1920	12	16	6	11	11	7	11	11	10	5	6	4	6	3	-
1921	6	4	5	5	11	12	14	13	9	6	4	3	4	4	5
1922	2	8	5	5	12	7	10	13	6	10	3	1	3	1	4
1923	5	12	8	5	8	10	17	15	8	6	7	2	5	1	1
1924	8	7	10	6	11	8	8	9	9	4	9	5	2	2	2
1925	7	7	11	6	9	9	10	11	7	4	4	9	5	2	2
1926	12	8	12	5	11	15	7	8	4	8	7	9	1	3	3
1927	8	9	5	3	9	15	6	9	7	5	8	2	8	4	1
1928	8	14	9	6	11	8	7	8	13	8	5	3	3	9	7
1929	5	5	5	10	7	10	2	5	9	4	2	4	7	5	6
1930	5	6	4	5	8	7	9	12	9	3	5	2	5	4	6
1931	9	10	7	9	8	8	12	12	7	6	4	5	4	4	3
1932	5	6	5	3	10	10	9	13	6	2	4	4	2	1	5
1933	12	9	7	6	13	14	9	9	11	5	5	2	2	1	2
1934	9	9	2	7	8	8	9	18	6	9	2	6	4	3	4
1935	7	7	6	4	10	11	12	9	5	3	6	2	-	1	2
1936	6	12	7	6	8	6	4	10	5	4	4	5	2	11	7
1937	6	9	9	8	14	15	15	8	4	7	7	4	3	4	1
1938	14	10	5	5	13	11	12	9	4	6	6	2	2	1	1

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
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No. Year	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
1899	5	10	10	4	7	4	10	12	11	9	14	7	10	7	9
1900	6	5	8	4	1	6	6	15	12	10	7	6	3	4	4
1901	2	8	23	6	5	8	10	13	17	16	9	5	9	3	5
1902	6	6	25	4	4	4	15	11	12	5	10	7	7	9	9
1903	2	3	10	6	7	2	13	8	13	7	8	4	6	2	-
1904	3	9	12	6	9	5	10	7	9	9	8	3	6	2	5
1905	1	5	11	5	5	7	4	14	11	6	8	4	4	2	3
1906	-	-	2	6	3	4	6	15	4	11	7	3	8	4	5
1907	6	5	3	7	6	9	10	14	9	7	10	9	6	1	2
1908	6	2	11	-	4	1	8	8	6	10	5	4	8	7	7
1909	2	3	6	7	3	2	13	7	7	7	3	6	5	3	10
1910	8	7	4	5	4	11	8	18	12	4	8	2	1	5	3
1911	7	6	6	-	2	4	12	14	7	8	9	5	2	3	7
1912	-	1	4	8	6	2	7	7	7	4	5	6	1	2	1
1913	3	1	4	6	2	7	7	7	11	14	-	3	5	1	4
1914	1	1	4	5	2	7	14	15	4	6	10	3	6	1	3
1915	4	4	12	6	7	4	8	7	11	12	6	8	4	5	1
1916	4	3	7	5	9	7	8	16	4	11	3	6	3	3	3
1917	2	4	7	9	8	6	15	7	9	7	2	5	6	-	4
1918	-	6	2	2	9	7	7	16	7	8	11	12	1	6	3
1919	2	2	5	8	8	4	5	8	12	11	4	2	5	2	2
1920	3	-	6	5	3	5	9	6	9	12	6	2	1	1	1
1921	3	7	9	7	4	6	9	16	8	4	11	1	4	3	9
1922	5	-	4	4	2	6	12	9	8	8	7	5	2	4	2
1923	3	2	5	3	9	7	3	11	10	16	5	4	4	-	3
1924	1	3	4	8	6	8	17	10	9	15	7	3	1	-	5
1925	1	4	5	5	5	4	16	15	6	3	6	6	4	5	6
1926	6	4	9	5	8	3	11	13	15	5	11	7	7	4	5
1927	6	2	9	4	9	6	16	16	11	8	6	3	6	3	2
1928	6	3	6	6	3	2	7	11	14	6	7	5	4	3	5
1929	4	2	11	4	4	6	10	7	6	7	6	4	3	3	8
1930	2	1	12	6	1	2	13	10	11	6	7	3	4	2	3
1931	2	-	4	3	1	6	14	18	9	5	11	8	1	4	4
1932	6	5	6	5	9	5	6	5	6	5	10	6	1	7	4
1933	8	7	8	4	7	1	13	9	9	4	6	4	3	3	2
1934	6	2	8	1	4	6	8	13	10	10	4	5	2	3	1
1935	1	-	2	8	4	9	11	20	14	10	6	3	3	2	2
1936	5	5	1	5	2	4	14	6	4	4	4	5	5	1	3
1937	4	7	8	5	3	6	14	7	7	7	9	10	3	3	6
1938	3	4	5	4	4	7	16	15	7	8	3	2	8	6	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135
1899	3	8	5	9	1	1	6	4	9	7	5	4	3	5	5
1900	3	4	2	4	5	5	12	3	6	5	5	5	-	1	3
1901	7	4	4	4	8	4	5	7	10	11	9	6	4	2	2
1902	3	1	4	4	4	7	3	7	2	4	7	6	1	2	5
1903	1	2	1	1	1	7	3	3	5	9	8	4	4	3	3
1904	5	10	7	2	6	13	-	2	6	4	3	7	2	1	1
1905	5	1	1	1	4	1	4	4	10	5	5	3	2	2	-
1906	5	8	4	4	3	4	5	3	11	5	6	5	7	3	3
1907	4	4	2	7	8	1	4	2	3	6	2	2	5	-	3
1908	4	2	1	8	7	8	4	4	8	12	4	5	3	-	-
1909	4	3	3	9	4	11	2	3	3	5	4	2	4	1	-
1910	-	1	-	5	1	-	3	5	4	4	2	1	1	3	6
1911	3	6	9	7	1	6	-	8	5	7	3	1	8	6	2
1912	1	3	1	2	3	3	3	6	12	4	-	2	6	-	7
1913	1	1	6	2	1	10	3	5	8	6	1	3	4	6	7
1914	3	2	1	1	2	19	3	7	5	5	2	4	-	1	-
1915	7	4	2	5	1	3	3	2	3	5	8	5	4	2	2
1916	5	5	2	4	1	5	5	6	4	4	4	-	2	1	2
1917	4	-	2	5	5	6	2	3	2	7	4	3	1	2	5
1918	1	2	2	3	7	14	2	-	7	5	5	4	1	4	3
1919	7	3	2	1	5	3	5	3	7	8	9	6	5	1	-
1920	4	2	1	1	6	8	4	4	7	9	1	6	4	2	1
1921	1	3	5	3	3	11	3	2	6	4	3	2	3	1	4
1922	2	1	2	3	3	3	4	6	3	7	4	2	2	1	2
1923	1	6	2	1	6	12	2	2	5	7	6	4	8	1	1
1924	2	-	4	5	5	14	3	4	13	9	5	4	1	4	3
1925	6	1	3	2	4	6	3	3	8	6	6	2	2	5	2
1926	7	4	4	1	1	10	5	9	6	8	7	1	3	8	2
1927	4	5	1	1	4	9	4	4	4	5	2	3	2	2	1
1928	-	1	1	4	2	10	3	10	7	5	3	1	7	-	1
1929	6	3	9	-	2	3	1	3	3	6	6	1	2	-	1
1930	1	1	1	-	-	3	3	1	6	7	6	5	-	2	-
1931	3	2	4	2	-	2	-	4	3	1	6	6	1	6	6
1932	3	3	5	2	4	2	2	3	2	7	1	4	5	4	5
1933	1	1	2	2	2	5	2	2	4	2	7	2	3	2	2
1934	3	1	2	-	1	8	2	2	5	6	5	4	3	4	2
1935	-	-	2	1	1	2	3	4	9	7	4	5	4	4	2
1936	5	2	3	3	6	9	2	7	4	7	4	3	2	1	1
1937	2	5	4	3	1	8	2	1	12	6	3	3	2	2	2
1938	2	1	-	2	2	6	2	6	6	4	6	5	3	2	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
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No. Year	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150
1899	1	1	3	2	2	1	2	1	1	6	5	11	4	6	3
1900	2	6	4	4	2	1	2	1	1	8	5	3	5	5	2
1901	1	-	1	-	3	4	-	-	4	10	6	5	3	1	5
1902	3	1	4	4	2	3	3	-	1	4	1	3	-	1	3
1903	1	1	1	1	-	2	3	-	2	2	4	5	5	7	6
1904	2	1	1	5	4	2	5	3	9	2	2	3	5	1	1
1905	-	2	-	2	3	1	1	2	1	3	-	2	2	1	5
1906	7	-	3	-	1	2	2	-	-	4	6	6	3	4	1
1907	9	3	-	2	1	1	3	3	-	9	1	3	3	2	5
1908	-	5	-	1	1	4	-	1	1	1	2	8	11	3	4
1909	1	1	3	1	3	2	1	2	4	9	3	4	3	2	2
1910	5	2	2	3	-	-	-	-	-	3	1	1	1	3	5
1911	-	-	2	3	1	-	-	1	10	2	-	3	2	-	1
1912	3	-	1	1	2	1	2	1	1	3	13	5	2	2	-
1913	2	2	-	1	1	5	1	1	1	3	-	1	1	1	1
1914	-	1	-	1	1	1	3	1	2	10	1	2	2	2	-
1915	2	1	1	1	1	2	-	1	-	4	5	1	-	2	2
1916	2	2	1	-	-	3	-	1	1	1	2	4	4	3	2
1917	2	2	1	2	1	2	3	3	1	1	-	2	4	1	1
1918	-	2	-	-	1	-	1	3	-	1	8	5	4	1	2
1919	2	1	1	2	-	2	1	-	1	4	9	1	2	3	-
1920	-	-	1	-	-	-	-	2	1	-	5	5	5	3	2
1921	2	1	2	1	-	1	-	1	1	4	2	2	4	2	2
1922	2	4	2	-	1	-	1	-	2	2	10	4	-	1	-
1923	6	2	-	1	1	1	1	1	-	6	2	2	1	-	2
1924	-	-	2	1	1	2	3	1	3	8	2	5	4	6	2
1925	2	5	6	3	4	3	3	1	7	5	3	6	3	3	1
1926	2	2	3	7	4	2	1	3	7	3	1	6	2	2	4
1927	1	3	2	6	3	2	1	-	4	1	1	2	2	1	2
1928	-	1	1	1	1	2	2	1	5	3	6	-	3	5	-
1929	2	2	1	3	1	1	2	1	5	6	-	3	4	-	-
1930	1	-	-	1	4	1	3	2	11	5	-	2	5	3	3
1931	4	1	2	3	1	1	3	1	7	3	1	2	2	5	5
1932	5	2	-	2	1	2	2	1	6	6	-	3	1	4	2
1933	2	1	4	3	2	5	1	-	12	4	5	4	3	2	4
1934	-	4	2	1	5	7	2	1	14	4	2	4	4	1	1
1935	-	2	3	2	4	-	1	-	8	9	2	4	-	2	4
1936	-	2	2	2	4	-	1	-	17	3	3	2	2	-	3
1937	6	1	2	4	6	2	3	1	3	7	2	3	1	1	1
1938	2	4	1	1	1	2	3	2	4	2	4	4	1	1	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
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No. Year	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
1899	6	2	3	-	-	1	1	-	1	1	-	-	1	-	3
1900	1	1	1	1	2	5	5	-	1	-	-	-	6	3	3
1901	2	2	2	1	-	1	-	-	-	-	-	1	2	3	5
1902	2	2	-	1	2	3	-	-	-	-	-	-	1	1	-
1903	3	-	5	2	1	-	-	-	-	-	1	-	-	-	-
1904	1	3	2	1	1	-	-	-	2	-	-	15	2	3	3
1905	4	-	-	-	-	-	-	1	-	1	-	1	4	1	-
1906	5	3	6	8	5	2	6	-	1	-	1	1	3	8	1
1907	3	1	5	7	10	1	-	-	-	-	1	1	1	-	2
1908	1	1	1	4	2	2	-	-	1	-	1	1	1	1	2
1909	2	1	-	2	-	-	-	1	2	-	1	1	3	3	3
1910	4	1	4	3	1	-	4	2	2	-	1	2	1	2	1
1911	1	-	1	-	-	-	-	-	-	-	1	1	1	2	2
1912	-	2	-	1	2	-	-	2	-	4	-	-	2	1	-
1913	1	-	1	-	2	2	1	-	-	-	-	1	1	1	-
1914	1	1	-	-	-	-	-	-	-	1	-	8	-	-	-
1915	2	-	2	-	1	-	2	-	-	-	-	-	4	5	1
1916	1	-	1	1	-	-	1	-	1	-	-	1	2	2	7
1917	1	4	2	-	1	-	-	2	-	-	-	-	2	1	-
1918	-	-	2	1	-	-	-	-	-	-	-	-	2	-	-
1919	-	-	-	-	-	1	-	2	-	-	-	-	1	2	4
1920	-	-	-	-	-	-	-	-	-	1	1	1	3	-	-
1921	1	-	-	-	-	-	-	-	1	-	-	-	2	1	-
1922	1	1	-	-	-	-	-	-	-	-	-	1	3	4	-
1923	2	1	3	2	1	-	-	1	-	-	-	1	1	-	2
1924	-	-	-	-	-	-	-	-	-	-	1	6	3	-	-
1925	-	4	2	1	-	2	1	1	1	-	1	4	-	-	1
1926	3	2	3	3	1	1	2	3	1	1	1	-	2	3	4
1927	2	1	3	1	1	-	3	-	-	-	-	-	6	1	3
1928	-	-	3	-	-	-	-	-	1	-	-	4	-	1	4
1929	2	1	3	1	-	-	-	1	-	-	1	8	-	1	3
1930	1	2	1	-	-	-	1	-	-	1	-	1	-	-	-
1931	1	2	1	1	-	-	1	-	-	-	1	-	1	1	2
1932	1	3	5	2	-	1	2	-	-	1	-	11	-	1	3
1933	1	-	1	-	3	1	-	-	-	1	-	1	5	6	1
1934	1	1	-	2	-	-	-	-	1	-	-	4	3	3	1
1935	2	-	1	3	-	2	4	1	1	-	-	4	-	1	3
1936	-	2	3	1	1	1	4	-	-	-	11	2	1	1	1
1937	1	2	-	3	2	1	-	-	-	-	2	-	-	-	1
1938	-	-	-	1	1	3	3	-	1	-	-	5	1	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
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No. Year	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
1899	7	3	1	1	1	-	1	-	-	-	-	-	4	4	
1900	2	5	4	-	2	-	1	-	1	-	-	-	1	6	
1901	3	4	2	1	-	-	-	1	-	-	1	-	-	-	
1902	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1903	2	1	3	1	1	1	2	-	-	-	-	-	4	2	
1904	-	1	-	-	2	1	1	-	-	-	-	-	-	-	
1905	2	-	-	2	-	-	-	-	-	-	-	-	-	-	
1906	1	3	3	-	1	1	1	-	-	1	-	-	-	-	
1907	1	1	1	3	-	-	1	1	-	1	-	-	4	11	
1908	3	-	-	1	2	1	2	-	-	-	-	-	-	1	
1909	1	-	-	-	1	-	-	-	2	-	-	-	-	1	
1910	1	-	3	1	-	1	1	-	-	-	-	-	-	-	
1911	2	-	-	1	2	1	-	-	-	-	-	-	-	-	
1912	1	1	-	-	1	-	1	-	-	-	-	-	-	-	
1913	-	1	1	-	-	1	-	-	-	-	-	-	-	-	
1914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1915	1	-	-	1	2	-	1	-	-	-	-	-	-	-	
1916	1	4	2	-	-	-	-	-	-	-	-	-	-	-	
1917	-	-	1	1	-	-	-	-	-	-	-	-	-	-	
1918	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
1919	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
1920	-	-	3	1	-	-	-	-	-	-	-	-	-	-	
1921	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
1922	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1923	-	1	2	-	1	-	1	-	-	2	-	-	-	2	
1924	1	5	-	-	-	-	-	-	3	-	-	-	-	2	
1925	-	-	1	-	-	-	1	-	-	-	-	-	-	1	
1926	1	3	3	4	-	2	1	-	-	-	1	-	-	2	
1927	-	-	2	1	4	1	-	-	-	-	-	-	-	1	2
1928	1	-	-	-	1	1	-	-	-	-	-	-	-	-	1
1929	-	3	2	2	1	1	-	-	-	-	-	-	-	-	3
1930	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
1931	-	-	-	-	1	-	1	-	-	-	-	-	1	-	
1932	3	3	-	1	2	2	1	-	-	-	-	-	-	-	
1933	2	3	3	-	-	-	-	-	1	-	-	-	-	-	1
1934	3	3	3	-	-	-	-	-	2	-	-	-	-	-	5
1935	2	5	-	-	-	1	-	-	-	1	1	-	-	-	
1936	1	1	2	3	4	-	1	-	1	1	-	-	-	-	8
1937	-	-	-	4	5	1	3	-	1	-	-	-	-	1	
1938	1	-	-	1	1	-	1	-	1	-	-	-	-	-	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195
1899	1	3	2	9	3	3	3	-	-	1	-	2	1	4	-
1900	-	2	1	-	-	-	3	-	-	-	1	-	1	-	-
1901	5	4	1	9	4	-	2	3	2	1	1	1	3	1	-
1902	3	4	2	-	-	-	-	1	-	-	-	-	-	-	-
1903	-	-	1	2	4	2	1	2	-	-	2	1	-	-	-
1904	-	4	5	4	-	-	-	-	-	-	-	-	-	-	-
1905	2	-	1	-	-	-	-	2	-	-	-	-	-	-	-
1906	2	4	3	5	1	1	2	2	1	-	2	1	-	-	-
1907	1	1	-	-	-	-	1	1	1	-	2	-	1	-	-
1908	1	4	-	3	3	1	-	-	-	-	-	-	-	1	1
1909	4	5	2	2	3	-	-	-	-	-	-	-	2	-	-
1910	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1911	-	2	1	-	2	-	-	1	1	1	-	-	-	-	-
1912	-	3	10	1	2	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	-	2	-	-	1	-	1	-	-	-
1914	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1915	3	6	2	2	1	-	-	-	1	-	-	-	-	-	-
1916	5	4	6	3	2	4	-	1	1	-	-	-	-	1	-
1917	2	3	-	2	1	1	-	2	-	-	-	-	1	-	-
1918	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
1919	3	2	-	-	1	-	-	-	-	-	-	-	-	-	-
1920	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-
1921	9	9	-	-	2	-	-	-	-	-	-	-	-	-	-
1922	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-
1923	2	2	-	-	-	-	1	-	-	-	-	-	1	-	-
1924	9	9	4	-	1	1	1	-	-	-	-	4	4	4	-
1925	1	3	-	1	-	-	-	-	-	-	-	-	2	1	-
1926	6	11	1	-	2	2	1	2	2	1	-	-	1	3	-
1927	2	4	-	-	1	-	2	2	6	3	-	1	1	4	-
1928	-	4	-	2	3	-	-	-	-	-	-	-	-	-	-
1929	4	5	-	-	-	-	-	-	-	-	1	-	1	1	-
1930	2	1	1	1	2	-	2	-	-	-	-	-	-	-	-
1931	6	8	1	1	1	-	-	-	-	-	-	-	1	1	-
1932	3	2	-	-	2	3	1	-	1	-	-	-	-	-	-
1933	4	5	8	3	1	3	4	-	2	-	1	-	1	1	-
1934	3	-	2	-	-	2	-	-	-	-	-	-	-	-	1
1935	-	2	5	-	1	1	-	-	-	-	-	-	1	-	-
1936	-	1	-	-	-	-	-	1	1	-	1	-	1	-	-
1937	-	1	1	-	-	-	2	1	1	-	-	-	1	-	-
1938	2	5	4	1	-	-	-	-	-	-	-	-	2	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
1899	3	10	6	8	3	2	1	-	1	-	3	3	4	2	5
1900	-	1	6	-	-	-	-	-	-	-	-	-	-	-	1
1901	-	2	3	2	1	2	2	-	3	4	5	3	3	4	7
1902	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-
1903	5	16	19	-	-	1	1	-	2	1	1	-	-	-	-
1904	-	1	3	-	-	2	1	1	-	-	2	-	-	-	-
1905	-	-	2	1	-	1	-	-	-	-	-	-	-	-	-
1906	1	-	-	1	1	1	-	2	-	1	1	-	2	3	1
1907	-	5	21	3	2	4	1	-	-	1	-	-	-	-	1
1908	-	-	3	-	3	1	1	-	1	1	3	2	1	2	1
1909	-	-	15	2	7	5	-	-	1	-	1	1	-	2	1
1910	-	-	-	1	7	1	-	-	-	-	-	-	1	1	1
1911	-	-	-	3	3	4	1	2	1	-	-	-	-	-	-
1912	-	-	-	1	-	3	-	2	-	-	-	-	-	-	-
1913	-	-	1	1	-	3	1	-	-	-	-	-	1	-	-
1914	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-
1915	-	-	1	1	3	2	-	-	-	1	-	-	-	-	-
1916	-	1	-	5	5	-	-	2	3	1	-	1	-	-	-
1917	-	-	2	1	1	-	-	2	-	-	-	1	2	1	1
1918	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-
1919	-	1	3	-	-	-	-	-	1	-	-	-	-	-	-
1920	-	-	-	1	1	2	-	1	-	-	-	-	-	-	-
1921	-	-	-	1	1	-	-	-	1	1	-	-	-	-	-
1922	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-
1923	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
1924	1	-	-	3	15	10	9	2	-	-	-	1	-	1	1
1925	-	-	-	3	2	-	-	-	-	-	-	-	-	-	-
1926	-	2	3	3	5	2	-	-	-	3	1	1	-	-	-
1927	-	-	-	7	21	5	1	3	-	-	2	2	3	5	3
1928	-	-	-	3	3	1	2	-	2	-	1	-	1	-	1
1929	-	-	2	3	11	2	-	1	-	-	1	3	-	-	1
1930	-	-	-	-	7	2	-	-	-	-	-	1	-	-	-
1931	-	-	-	-	3	10	2	3	-	-	-	-	1	-	-
1932	-	-	1	7	7	3	3	1	-	-	-	-	-	-	-
1933	-	-	2	2	21	6	-	2	-	-	-	-	-	-	1
1934	-	-	-	3	3	1	-	-	-	-	-	-	-	-	-
1935	-	-	-	7	5	3	1	-	-	-	1	-	-	-	-
1936	-	-	-	6	14	-	-	-	-	-	-	1	-	-	-
1937	-	-	1	3	8	6	4	2	-	-	1	1	2	1	-
1938	-	-	2	5	3	2	2	1	1	-	-	-	1	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE 990 mb. OR GREATER

No. Year	211	212	213	214	215	216
1899	10	5	-	-	2	-
1900	1	3	-	-	-	-
1901	9	3	2	1	5	1
1902	-	-	-	-	-	4
1903	-	1	-	3	5	22
1904	1	-	-	1	1	1
1905	-	-	-	-	-	-
1906	2	-	-	-	-	-
1907	2	-	-	5	5	12
1908	3	-	1	-	-	-
1909	2	-	-	-	-	1
1910	-	-	-	-	1	-
1911	-	-	-	-	-	1
1912	-	-	-	-	17	7
1913	1	-	-	1	5	2
1914	-	-	-	-	-	-
1915	-	-	-	-	6	8
1916	1	2	-	-	-	-
1917	-	3	-	-	4	2
1918	1	1	4	-	-	-
1919	1	-	-	-	1	9
1920	-	-	-	-	-	-
1921	-	-	1	-	-	-
1922	1	-	-	1	-	1
1923	-	2	-	1	-	-
1924	6	9	1	-	-	-
1925	1	1	-	-	-	-
1926	-	-	2	-	-	-
1927	4	4	-	-	-	-
1928	-	-	-	-	-	-
1929	3	3	4	-	-	-
1930	-	-	-	-	-	-
1931	-	-	-	-	-	-
1932	-	2	-	1	1	-
1933	1	1	-	2	-	-
1934	-	-	-	-	-	-
1935	1	8	2	-	-	-
1936	1	1	1	-	-	-
1937	4	3	-	-	-	-
1938	-	3	-	-	-	-

FREQUENCY  
OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE LESS THAN 990 mb.

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1899	-	-	-	-	2	-	1	-	2	2	1	2	3	5	-
1900	-	-	-	-	-	-	-	2	2	1	-	3	10	3	3
1901	-	-	1	1	1	1	1	1	1	-	7	2	3	-	1
1902	-	1	-	-	-	1	4	2	-	1	5	2	3	6	1
1903	-	-	-	-	-	1	4	6	1	-	2	7	5	2	2
1904	2	-	1	1	-	1	-	1	-	-	1	9	3	3	2
1905	-	-	-	-	-	2	4	6	2	1	4	9	4	2	1
1906	-	-	-	-	-	-	2	5	1	1	5	5	5	6	5
1907	-	-	-	-	-	-	3	5	-	-	3	6	5	4	4
1908	-	-	-	-	-	1	3	2	3	2	3	9	3	6	2
1909	-	-	-	-	-	-	-	3	1	-	3	3	4	-	1
1910	-	-	-	-	-	-	1	4	2	-	-	5	3	4	-
1911	-	-	-	-	-	-	3	3	1	-	2	1	3	4	6
1912	-	-	-	-	-	1	-	1	-	-	2	5	3	6	2
1913	-	-	-	-	-	-	1	4	1	1	6	9	6	5	5
1914	-	-	-	1	-	1	1	2	-	1	4	2	5	1	1
1915	-	-	-	-	-	1	1	1	-	-	3	2	4	-	1
1916	-	-	-	-	-	-	3	1	1	1	5	5	3	-	2
1917	-	-	-	-	-	3	5	-	-	-	2	5	5	3	1
1918	-	-	-	1	-	-	2	2	-	-	3	3	4	2	5
1919	-	-	-	-	1	-	-	2	2	2	1	4	-	-	-
1920	-	-	-	-	-	-	1	2	1	-	1	8	5	4	1
1921	-	-	-	-	-	1	1	6	2	-	6	7	10	6	4
1922	-	-	-	-	-	-	3	5	1	1	4	6	2	1	-
1923	-	-	-	1	-	1	3	3	1	1	1	3	2	3	3
1924	-	-	-	1	-	-	2	2	2	-	2	5	2	1	2
1925	-	-	-	-	-	-	1	1	-	1	5	2	3	2	4
1926	-	-	-	1	-	2	1	-	1	2	3	3	-	1	3
1927	1	-	-	-	-	2	3	-	2	3	1	2	1	2	2
1928	-	-	1	-	1	3	6	3	7	3	2	1	1	4	1
1929	1	-	1	1	-	1	2	1	1	2	3	3	3	1	3
1930	-	-	-	-	1	-	1	1	1	-	3	3	2	1	-
1931	-	-	-	-	-	-	-	4	2	2	3	2	3	1	4
1932	1	-	1	1	2	2	1	3	1	-	2	4	-	3	2
1933	1	-	-	-	1	4	4	-	2	2	3	2	3	1	3
1934	-	-	1	1	-	1	4	4	2	-	1	2	4	1	2
1935	-	-	-	1	1	2	6	6	-	-	4	1	1	4	2
1936	1	-	1	2	-	2	1	3	1	1	-	1	5	3	1
1937	-	-	1	-	-	2	1	2	-	1	-	2	1	1	3
1938	-	-	-	-	-	2	3	5	-	1	1	1	2	2	2

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1899	-	1	-	-	-	-	-	-	3	3	1	-	1	3	3
1900	-	1	-	-	-	-	-	-	2	3	2	5	2	6	4
1901	-	1	1	1	1	-	-	-	-	-	2	1	3	1	3
1902	1	-	1	-	-	-	-	1	-	1	-	3	1	4	4
1903	5	5	1	-	-	-	1	-	-	1	7	3	2	3	8
1904	2	-	1	-	-	1	-	-	-	1	7	7	2	4	7
1905	1	2	3	-	-	-	-	-	-	3	6	3	2	5	2
1906	2	1	1	-	-	-	-	-	-	1	6	3	1	1	7
1907	1	1	-	-	-	-	-	-	1	2	6	7	1	3	5
1908	3	2	-	-	-	-	-	-	-	1	9	3	2	2	1
1909	-	2	2	-	-	-	-	-	-	2	1	5	2	-	3
1910	1	4	-	-	-	-	-	-	-	2	4	1	1	6	6
1911	2	-	-	-	-	-	-	-	-	2	6	6	4	7	4
1912	3	1	1	-	-	1	-	-	-	1	12	4	2	5	6
1913	3	4	2	-	-	-	-	1	-	-	10	6	7	4	5
1914	-	6	2	-	-	-	1	-	-	3	9	6	3	6	3
1915	-	1	-	-	-	-	-	-	-	2	3	1	2	3	-
1916	1	6	2	-	-	-	-	1	2	-	7	6	6	1	1
1917	1	-	2	-	-	-	-	-	1	6	4	3	1	1	-
1918	5	-	1	-	1	-	-	-	-	1	3	3	2	2	3
1919	5	1	1	-	-	-	-	-	-	-	3	3	3	3	3
1920	3	-	2	-	-	-	-	-	-	-	7	8	1	6	5
1921	2	3	-	-	-	-	-	-	-	3	5	6	7	7	4
1922	-	2	1	-	-	-	-	-	-	-	3	4	3	2	4
1923	4	5	4	-	-	-	-	-	1	2	9	7	3	4	4
1924	1	4	-	1	-	-	-	-	-	2	3	6	1	8	3
1925	1	4	6	-	-	-	-	1	-	-	1	3	5	4	3
1926	-	1	-	-	-	-	-	-	-	-	1	1	6	2	2
1927	6	-	2	-	-	-	4	4	-	2	-	3	1	8	6
1928	5	4	2	-	-	1	2	2	1	2	3	6	3	3	1
1929	4	2	2	-	-	2	1	2	1	-	1	3	6	3	3
1930	5	2	1	-	1	1	-	5	2	-	2	1	4	1	4
1931	1	1	3	-	-	3	-	6	3	2	1	2	1	5	5
1932	1	1	1	3	2	2	2	6	2	1	2	2	1	4	6
1933	2	3	-	-	-	-	-	2	2	2	2	7	5	5	6
1934	4	6	3	-	-	2	3	1	5	3	3	4	-	1	-
1935	1	1	1	-	-	-	2	1	2	1	3	4	3	2	1
1936	1	-	3	2	-	-	2	1	3	2	3	1	2	1	1
1937	-	1	1	1	-	-	2	3	3	3	3	-	3	5	8
1938	9	5	9	3	-	2	2	3	2	2	4	2	2	5	6

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1899	1	2	3	4	6	3	-	-	-	-	1	-	-	4	1
1900	7	6	2	1	3	1	-	-	-	1	-	1	1	-	4
1901	4	9	2	3	2	3	1	-	1	-	1	-	1	-	2
1902	3	2	6	-	3	4	1	1	-	-	-	1	-	1	5
1903	7	9	5	10	4	6	1	-	1	-	1	1	2	2	7
1904	3	4	12	3	8	3	-	-	-	-	1	-	1	3	4
1905	5	5	9	3	1	3	1	-	-	1	-	-	2	2	1
1906	4	10	5	5	3	4	-	-	-	-	-	-	1	-	4
1907	4	4	5	4	1	2	-	-	-	-	-	-	-	-	1
1908	8	8	5	3	3	6	-	-	-	-	-	-	1	1	1
1909	3	5	8	7	3	5	-	-	-	-	-	-	1	-	4
1910	5	12	4	7	5	5	-	-	-	-	-	-	-	1	1
1911	6	10	8	5	6	2	-	-	-	-	-	-	-	4	1
1912	2	7	6	4	6	-	-	-	-	-	-	-	-	4	1
1913	8	6	11	5	7	3	-	-	-	-	-	-	-	4	-
1914	10	8	7	8	2	8	-	1	-	1	-	1	2	3	3
1915	2	2	14	1	-	1	-	-	-	-	-	-	1	2	7
1916	2	10	9	12	6	3	-	-	-	-	-	-	-	1	3
1917	6	3	1	1	3	1	-	-	-	-	2	-	1	5	5
1918	7	10	7	5	5	1	-	-	-	-	-	-	-	-	-
1919	2	7	6	6	4	3	1	-	-	1	-	-	-	1	4
1920	6	15	7	2	5	3	-	-	1	-	-	-	-	1	4
1921	7	11	5	2	5	2	1	-	-	-	-	-	3	1	5
1922	2	6	4	7	2	2	-	-	-	-	-	-	1	2	2
1923	2	7	3	4	6	3	-	-	-	-	1	-	-	1	3
1924	1	3	5	1	3	-	1	-	-	-	-	-	-	-	2
1925	-	2	1	5	5	1	-	-	-	1	-	1	2	-	3
1926	1	4	4	6	5	5	1	-	-	1	-	-	-	3	3
1927	5	6	1	4	1	5	-	-	-	-	-	-	-	1	-
1928	3	11	10	9	3	3	-	-	-	-	1	-	1	4	3
1929	4	10	4	3	4	5	1	-	1	-	-	4	1	1	5
1930	4	10	3	6	8	3	-	-	1	1	2	-	1	-	1
1931	4	2	5	2	4	-	-	1	-	-	-	1	1	3	-
1932	6	9	2	4	6	1	1	-	-	1	1	1	4	1	-
1933	2	1	4	3	1	-	1	-	-	1	1	1	3	-	2
1934	6	10	6	2	4	1	1	1	1	1	1	3	-	1	-
1935	1	4	1	3	3	3	-	1	-	-	-	1	2	-	3
1936	-	2	1	-	3	3	-	-	1	2	2	-	3	-	1
1937	9	2	4	1	3	-	-	-	3	-	2	2	2	2	2
1938	4	9	10	7	4	6	-	1	1	3	2	-	1	1	1

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FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
1899	4	3	6	1	5	3	6	1	4	-	-	-	-	-	1
1900	2	3	1	3	4	1	4	1	4	-	-	-	-	-	3
1901	2	3	3	2	3	8	3	3	3	1	1	-	-	-	-
1902	3	4	5	4	2	7	-	2	3	-	-	-	-	-	-
1903	5	4	4	5	2	3	4	5	7	-	-	-	1	-	1
1904	3	2	4	6	6	2	3	2	2	-	-	-	-	1	1
1905	5	5	1	2	5	3	3	3	4	-	1	-	-	1	1
1906	1	1	-	5	1	2	1	3	1	-	1	-	-	-	1
1907	3	-	3	2	4	2	3	4	2	-	1	-	-	-	-
1908	7	-	7	6	5	2	4	-	2	-	-	1	-	2	-
1909	2	-	1	-	2	1	-	1	1	-	1	1	-	-	-
1910	2	3	3	5	-	1	2	3	2	-	-	-	-	1	1
1911	3	4	4	7	-	5	1	4	-	-	-	-	-	-	2
1912	1	5	5	5	5	4	3	3	3	-	-	-	-	-	1
1913	4	3	4	3	4	4	2	1	1	-	-	-	1	-	5
1914	5	4	2	3	6	5	2	5	-	-	-	-	-	1	1
1915	4	1	2	1	3	4	3	5	6	-	-	-	-	-	1
1916	4	4	2	5	2	2	3	6	5	-	-	1	-	1	4
1917	2	1	1	-	1	1	-	3	3	-	-	-	-	1	-
1918	2	3	2	4	3	1	-	5	2	-	-	1	-	2	1
1919	1	1	-	2	1	3	3	2	2	-	1	1	-	-	-
1920	1	2	7	1	6	4	2	2	-	1	2	-	-	1	1
1921	1	4	1	1	3	-	3	-	1	-	2	-	-	-	1
1922	1	1	5	5	4	5	5	4	2	-	1	-	-	1	1
1923	3	7	7	5	5	5	5	5	1	-	1	-	1	-	2
1924	2	3	2	2	3	3	4	3	1	-	1	1	-	-	1
1925	3	2	3	3	5	5	3	6	-	-	-	-	1	1	7
1926	8	4	9	5	5	2	2	7	2	1	-	1	-	-	-
1927	2	5	7	2	6	6	3	4	6	-	1	-	-	-	3
1928	5	2	5	4	6	5	1	2	2	-	-	-	-	-	1
1929	2	2	-	6	6	2	2	3	2	-	-	-	-	-	2
1930	4	2	2	-	4	4	4	-	4	-	1	-	1	-	2
1931	3	-	2	4	4	3	1	4	-	-	-	-	-	-	1
1932	1	2	3	5	6	2	5	4	1	-	3	-	1	-	-
1933	1	5	2	3	2	3	1	-	1	-	1	-	-	-	1
1934	2	5	4	4	6	2	5	3	4	-	-	1	2	-	-
1935	1	2	1	4	3	5	4	2	-	1	-	-	1	-	-
1936	-	2	3	4	5	2	3	5	3	1	2	-	-	1	3
1937	2	2	1	4	2	1	2	2	2	1	1	1	-	1	1
1938	1	5	6	3	2	5	2	2	4	1	1	-	-	2	1

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE LESS THAN 990 mb.

35

No. Year	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
1899	1	1	3	2	3	4	3	4	3	1	1	2	1	-	-
1900	1	-	1	3	5	4	3	4	2	3	2	-	-	-	-
1901	-	-	2	4	2	5	2	3	2	2	1	-	-	-	-
1902	-	1	2	4	-	5	2	3	2	5	2	-	1	-	-
1903	3	5	1	6	4	5	2	3	7	3	3	-	1	-	1
1904	2	1	3	1	5	1	-	1	5	-	1	1	-	-	1
1905	2	1	3	2	3	3	4	6	1	4	3	1	1	-	-
1906	2	-	2	1	1	1	1	1	-	1	2	1	1	-	-
1907	1	2	-	3	5	1	2	-	1	4	2	3	-	1	1
1908	2	3	3	3	2	2	7	2	1	1	1	-	1	-	-
1909	1	2	1	2	1	2	-	1	4	4	2	1	1	-	2
1910	5	1	-	-	2	1	3	2	-	5	3	2	-	-	-
1911	3	4	2	3	3	1	4	8	6	2	7	-	-	2	-
1912	3	5	3	3	3	1	4	8	2	3	2	1	-	-	-
1913	-	2	2	3	3	1	2	8	2	3	3	-	-	-	-
1914	3	1	5	5	6	4	7	6	4	2	2	-	-	-	1
1915	3	-	2	2	4	-	-	5	3	4	7	-	-	-	2
1916	3	3	2	3	4	2	3	-	-	2	6	4	-	-	-
1917	1	3	2	3	2	3	1	-	2	2	-	1	1	-	2
1918	6	6	1	4	3	4	3	-	2	2	-	-	-	-	-
1919	3	4	2	4	2	5	4	2	4	2	2	1	-	-	-
1920	1	4	1	1	4	6	4	2	2	2	2	-	2	-	-
1921	3	1	-	4	2	6	-	2	1	1	-	1	-	1	-
1922	3	1	2	4	6	4	2	4	2	2	-	2	1	-	-
1923	5	2	3	3	1	5	3	2	3	1	4	1	-	1	2
1924	5	3	1	1	8	9	1	8	6	3	-	-	-	-	-
1925	6	1	5	4	2	5	4	5	2	1	1	4	-	-	1
1926	10	5	3	3	1	6	2	2	3	1	2	-	-	-	-
1927	3	1	2	5	5	4	5	-	2	4	5	1	-	1	1
1928	4	3	1	1	2	2	4	1	3	2	1	-	-	-	2
1929	1	8	4	-	1	3	5	2	4	1	-	-	-	-	3
1930	4	2	1	4	3	4	5	1	3	4	2	1	-	-	1
1931	2	4	-	3	4	1	1	2	1	3	-	-	-	-	1
1932	4	5	2	3	1	1	3	3	-	-	1	-	-	1	-
1933	6	12	4	2	7	3	1	2	-	1	2	-	1	-	-
1934	1	2	1	2	2	2	6	-	3	5	-	2	-	-	1
1935	4	6	1	5	3	4	3	5	5	2	2	-	-	2	-
1936	5	2	1	2	4	2	3	1	2	4	3	-	-	-	-
1937	2	5	1	1	2	2	-	1	1	2	5	4	-	1	-
1938	1	1	2	1	2	1	1	1	4	1	1	1	-	1	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
1899	-	1	3	-	2	-	6	3	4	2	1	1	1	-	-
1900	1	1	6	2	1	2	2	1	1	1	-	-	-	-	-
1901	1	1	2	3	4	4	-	2	4	3	-	-	-	-	1
1902	-	2	4	2	3	1	2	1	1	-	1	-	-	-	-
1903	-	3	3	2	1	3	3	2	-	1	2	2	1	2	-
1904	-	-	4	4	1	2	-	5	1	1	1	-	1	1	-
1905	1	-	1	4	1	-	1	1	2	-	2	1	1	-	1
1906	-	1	1	-	2	2	-	1	3	1	2	1	-	-	1
1907	-	1	1	-	4	2	1	1	1	-	-	-	-	-	1
1908	3	5	3	3	1	-	1	2	3	3	1	-	-	1	-
1909	-	1	2	5	3	2	2	3	2	1	-	1	1	-	1
1910	-	-	1	2	1	1	1	4	-	-	1	1	-	1	-
1911	-	4	2	3	3	1	5	-	-	2	-	-	1	-	-
1912	2	1	1	-	4	2	7	4	3	2	2	-	3	1	-
1913	-	3	2	1	1	4	2	-	1	1	3	1	-	-	-
1914	-	1	2	1	1	3	3	3	1	2	-	-	-	2	1
1915	-	-	1	4	8	3	3	2	4	-	1	-	-	-	-
1916	-	2	4	1	3	1	1	1	1	2	-	-	1	2	2
1917	1	-	2	2	3	3	1	-	-	-	-	-	-	-	-
1918	1	-	2	3	-	2	1	7	-	1	-	1	1	1	-
1919	-	1	-	-	1	8	2	3	6	-	1	-	2	1	1
1920	-	2	3	2	-	1	3	1	3	1	2	1	1	-	2
1921	-	-	-	5	2	1	3	2	2	-	-	-	-	-	-
1922	-	1	-	5	1	2	1	5	1	2	-	-	-	-	-
1923	-	2	-	2	3	2	1	1	-	2	2	1	-	-	1
1924	1	1	1	4	3	2	2	5	2	3	2	1	2	1	-
1925	1	2	-	2	1	2	3	3	2	2	-	1	-	1	3
1926	-	2	2	4	5	2	3	1	5	-	1	1	1	-	1
1927	-	1	4	2	4	2	1	4	1	-	2	1	-	-	-
1928	-	3	1	2	1	2	1	1	2	3	2	1	1	-	2
1929	1	1	3	2	2	4	1	7	3	-	1	2	-	-	-
1930	1	1	1	2	3	1	1	-	-	1	-	-	2	2	1
1931	1	-	2	3	1	2	3	3	4	1	2	-	1	1	1
1932	-	1	4	2	3	1	2	1	1	1	2	1	-	-	-
1933	1	1	8	2	1	1	2	3	3	-	1	-	1	1	1
1934	-	1	2	1	1	3	3	-	1	-	1	3	-	1	-
1935	-	-	3	1	-	1	1	1	1	-	-	1	-	1	-
1936	2	1	-	3	2	3	1	2	3	1	4	4	-	1	-
1937	-	1	-	1	1	1	1	3	3	6	4	5	3	2	1
1938	-	-	2	2	1	1	2	2	3	-	1	1	1	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105
1899	-	-	-	-	1	2	1	-	2	1	1	-	-	-	-
1900	-	-	-	-	4	-	3	1	1	-	1	1	-	1	-
1901	-	-	-	-	1	3	1	2	2	1	-	-	-	1	-
1902	1	1	-	-	2	-	-	3	-	-	-	-	-	1	2
1903	-	1	-	-	1	1	2	-	-	1	-	-	-	-	-
1904	-	-	-	-	-	2	2	-	1	1	-	-	-	-	-
1905	-	-	-	-	1	-	1	1	2	2	-	1	-	1	-
1906	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-
1907	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
1908	1	1	1	-	1	2	1	1	-	-	-	1	-	-	-
1909	1	-	1	1	2	-	3	1	1	2	3	2	2	1	-
1910	-	-	-	-	-	-	1	2	-	-	1	-	-	-	-
1911	-	-	1	1	-	1	-	-	2	-	1	-	-	-	-
1912	-	-	-	-	-	-	1	3	4	-	-	2	-	2	1
1913	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-
1914	-	1	-	1	-	2	-	3	-	1	-	1	1	-	-
1915	1	-	-	1	1	1	2	3	4	-	1	-	1	1	-
1916	-	-	-	2	2	1	-	3	2	4	1	-	2	1	1
1917	-	-	-	1	-	-	3	1	2	-	1	-	-	-	-
1918	-	-	-	-	-	2	2	1	-	2	-	-	-	-	1
1919	1	-	-	-	1	-	2	1	1	1	1	1	1	2	-
1920	-	-	-	-	3	-	1	2	-	-	1	1	-	-	-
1921	-	-	-	-	-	3	1	1	4	4	-	1	-	1	-
1922	1	1	-	-	-	-	1	2	1	-	-	-	-	2	1
1923	1	-	-	1	-	2	2	-	-	2	-	-	-	-	-
1924	-	-	-	-	-	1	1	1	-	2	5	-	1	-	-
1925	-	-	-	-	2	1	2	-	-	3	-	2	1	1	1
1926	1	-	-	-	2	4	2	1	1	3	1	1	-	-	1
1927	-	-	-	-	1	3	1	1	1	1	2	1	-	-	-
1928	-	-	-	1	-	1	-	-	-	1	1	-	-	-	-
1929	-	-	-	2	-	1	-	1	-	2	4	2	2	-	-
1930	-	1	-	-	1	2	1	1	-	3	-	-	-	-	2
1931	-	-	-	-	-	1	2	4	1	-	-	1	1	1	1
1932	-	-	-	1	2	1	2	-	1	1	-	-	-	-	-
1933	-	-	-	-	-	3	2	-	-	-	-	-	-	-	-
1934	-	-	-	-	1	2	1	-	-	2	1	2	-	-	-
1935	-	-	-	-	-	1	-	2	3	1	-	-	-	-	-
1936	-	1	-	-	-	2	-	-	-	-	1	2	-	-	-
1937	-	-	-	-	-	1	2	1	1	1	1	2	1	-	-
1938	1	-	-	-	1	-	-	2	1	2	2	1	1	-	-

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
1899	-	-	-	-	-	-	1	-	-	3	-	-	-	-	-
1900	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1901	-	-	-	-	-	-	1	-	-	1	2	1	-	1	1
1902	-	-	-	-	-	-	1	-	-	-	-	-	-	2	-
1903	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
1904	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1905	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1906	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
1907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1908	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-
1909	-	-	-	-	-	-	1	-	1	-	-	-	1	-	1
1910	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
1911	1	-	1	-	-	-	-	-	-	1	-	-	-	1	-
1912	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1913	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-
1914	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
1915	-	-	-	-	-	-	1	-	-	1	-	1	-	-	-
1916	1	-	1	-	-	-	2	-	2	1	2	-	-	-	-
1917	1	-	-	-	-	-	-	-	-	1	-	-	2	-	-
1918	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
1919	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1920	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1921	-	-	1	-	-	-	-	-	-	1	-	2	-	-	-
1922	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-
1923	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-
1924	-	-	-	-	-	-	1	1	1	1	-	1	1	-	-
1925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1926	-	-	-	1	-	-	1	1	1	-	-	-	-	-	-
1927	-	1	1	-	-	-	1	-	-	-	-	-	1	-	-
1928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1929	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-
1930	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
1931	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
1932	-	-	-	-	-	1	1	1	-	4	-	1	-	-	-
1933	-	-	-	-	-	2	1	3	2	-	-	1	-	-	-
1934	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
1935	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
1936	-	-	-	-	-	1	1	1	-	-	1	1	-	-	-
1937	1	-	1	-	-	-	1	-	-	-	-	1	1	-	1
1938	-	-	-	-	-	-	1	-	-	-	-	1	1	-	1

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
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WITH PRESSURE AT CENTRE LESS THAN 990 mb.

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FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE LESS THAN 990 mb.

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FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE LESS THAN 990 mb.

41

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

42

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE LESS THAN 990 mb.

43

FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
OVER THE NORTH ATLANTIC OCEAN  
WITH PRESSURE AT CENTRE LESS THAN 990 mb.

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FREQUENCY OF THE CENTRES OF CLOSED LOW PRESSURE SYSTEMS  
 OVER THE NORTH ATLANTIC OCEAN  
 WITH PRESSURE AT CENTRE LESS THAN 990 mb.

No. Year	211	212	213	214	215	216
1899	-	-	-	-	-	-
1900	-	-	-	-	-	-
1901	-	-	-	-	-	-
1902	-	-	-	-	-	-
1903	-	-	-	-	-	-
1904	-	-	-	-	-	-
1905	-	-	-	-	-	-
1906	-	-	-	-	-	-
1907	-	-	-	-	-	-
1908	-	-	-	-	-	-
1909	-	-	-	-	-	-
1910	-	-	-	-	-	-
1911	-	-	-	-	-	-
1912	-	-	-	-	-	-
1913	-	-	-	-	-	-
1914	-	-	-	-	-	-
1915	-	-	-	-	-	-
1916	-	-	-	-	-	-
1917	-	-	-	-	-	-
1918	-	-	-	-	-	-
1919	-	-	-	-	-	-
1920	-	-	-	-	-	-
1921	-	-	-	-	-	-
1922	-	-	-	-	-	-
1923	-	-	-	-	-	-
1924	-	-	-	-	-	-
1925	-	-	-	-	-	-
1926	-	-	-	-	-	-
1927	-	-	-	-	-	-
1928	-	-	-	-	-	-
1929	-	-	-	-	-	-
1930	-	-	-	-	-	-
1931	-	-	-	-	-	-
1932	-	-	-	-	-	-
1933	-	-	-	-	-	-
1934	-	-	-	-	-	-
1935	-	-	-	-	-	-
1936	-	-	-	-	-	-
1937	-	-	-	-	-	-
1938	-	-	-	-	-	-