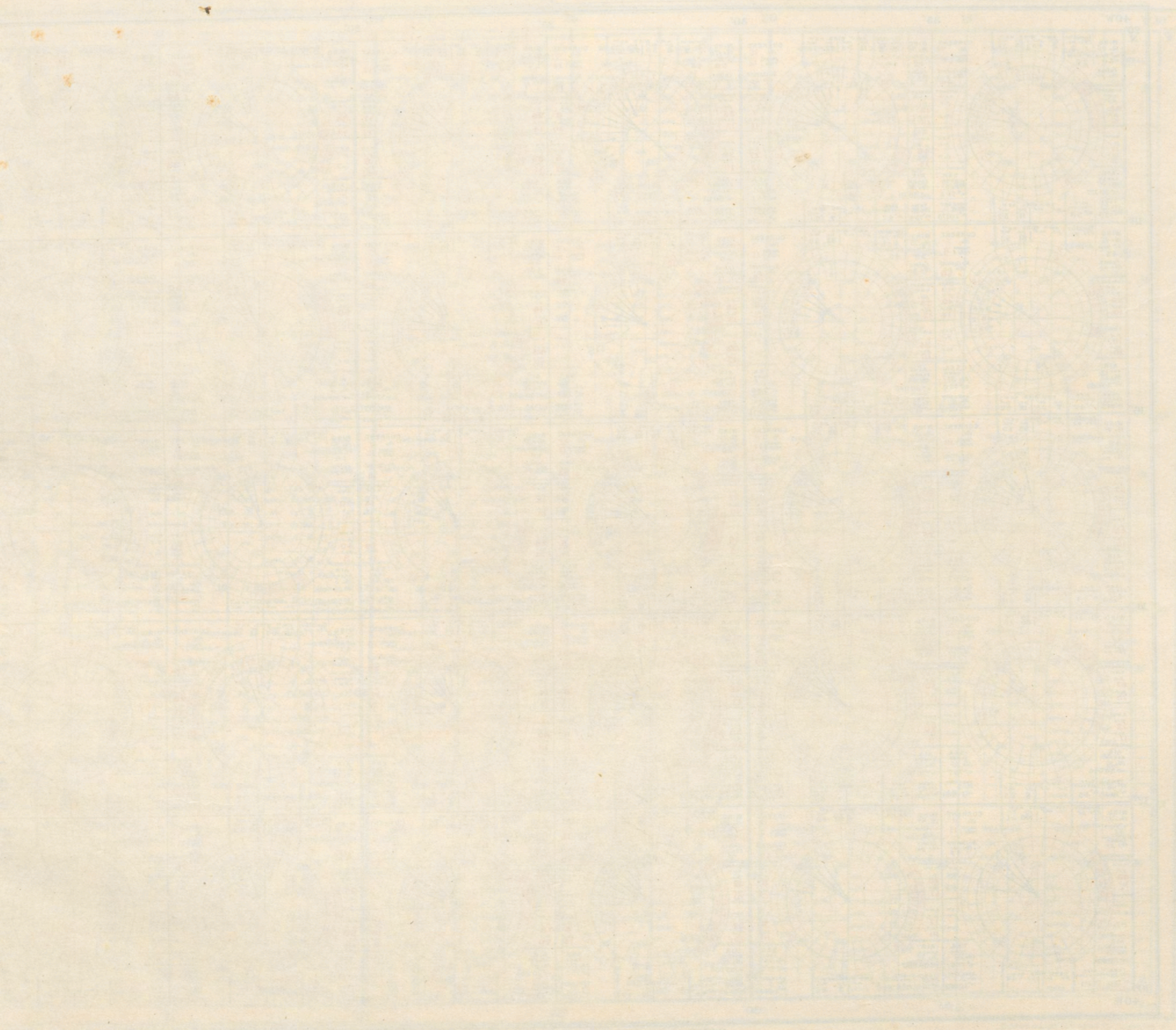


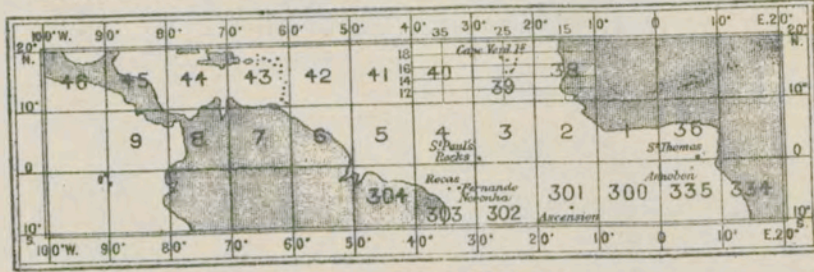


CHARTS
OF
METEOROLOGICAL DATA
FOR NINE TEN-DEGREE SQUARES
LAT. 20° N. TO 10° S., LONG. 10° TO 40° W.

SQUARES
38, 39, 40.
JANUARY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

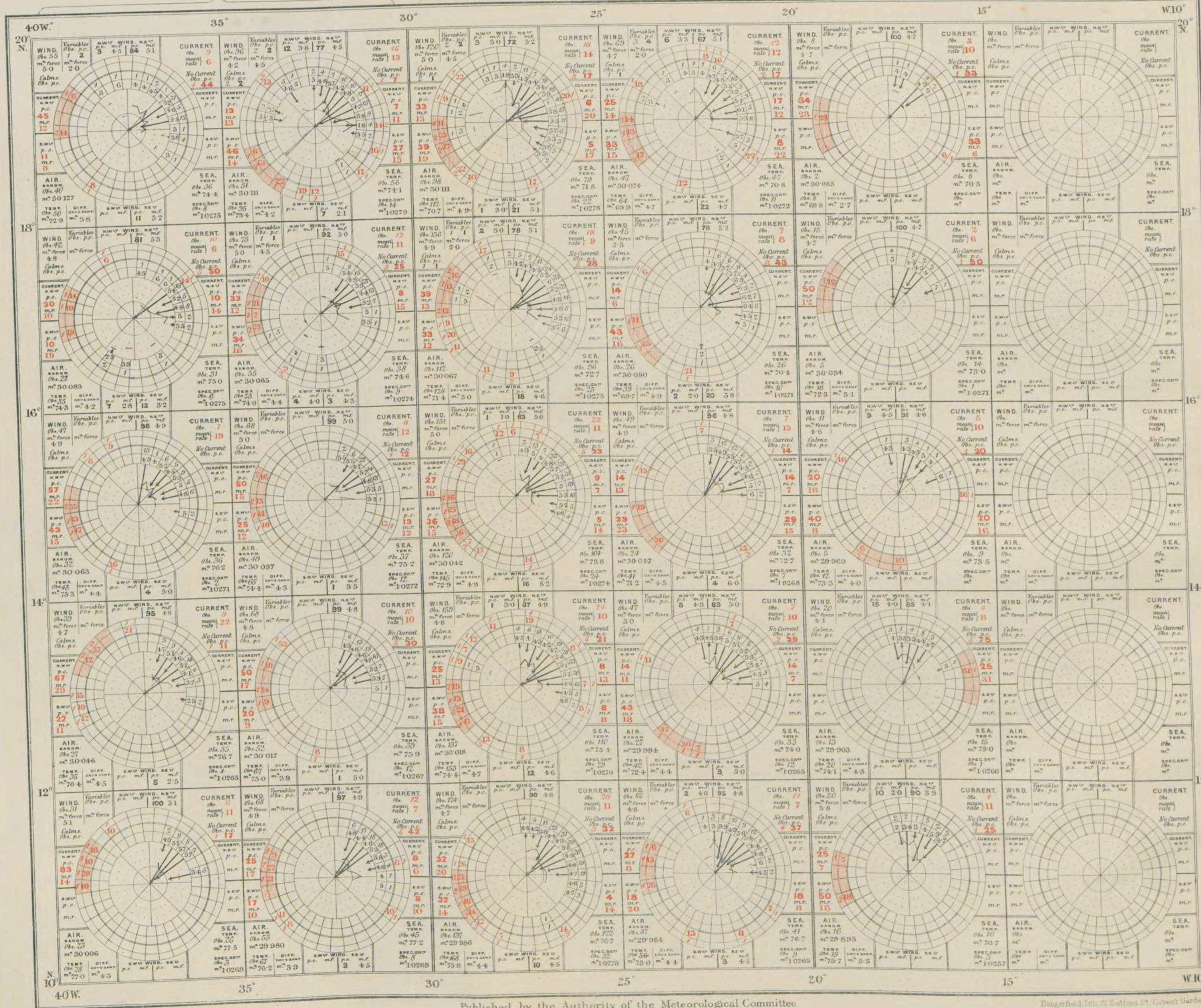


SQUARE 40.

SQUARE 39.

SQUARE 38.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



WEATHER; CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

0 'Aim		
1 Light air	Just sufficient to give steerage way.	
2 Light breeze	With which a well conditioned ship 1 to 2 knots of	
3 Gentle breeze		way with all sail set, would go in 3 . 4 . 5
4 Moderate breeze	smooth water and clear full ground in 5 . 6 . 7	
5 Fresh breeze		Royals, &c.
6 Strong breeze	To which she could carry in chase full and by	Single reefed topsail of 13 Gs.
7 Moderate gale		Double reefed topsails, 14 Gs.
8 Fresh gale		Triple reefed topsails 15 Gs.
9 Strong Gale		Close reefed topsail, 16 Gs.
10 Whole gale	With which she could scarcely bear close reefed main-top sail and reefed foresail.	
11 Storm	Which would reduce her to storm-stay sails,	
12 Hurricane	Which no canvas could withstand.	

<i>b</i> Blue sky.	<i>g</i> Squally.
<i>c</i> Clouds (detached).	<i>r</i> Rain.
<i>d</i> Drizzling rain.	<i>s</i> Snow.
<i>f</i> Foggy.	<i>t</i> Thunder.
<i>g</i> Gloomy.	<i>u</i> Ugly (threatening) appearance
<i>h</i> Hail.	of weather.
<i>l</i> Lightning.	<i>v</i> Visibility. Objects at a distance
<i>m</i> Misty (hazy).	unusually visible.
<i>o</i> Overcast.	<i>w</i> Dew.
<i>p</i> Passing showers.	

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter is on these Charts given at the head of a column.

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

SQUARES
38, 39, 40.
JANUARY

[illegible]

SQUARES
38, 39, 40.
FEBRUARY.

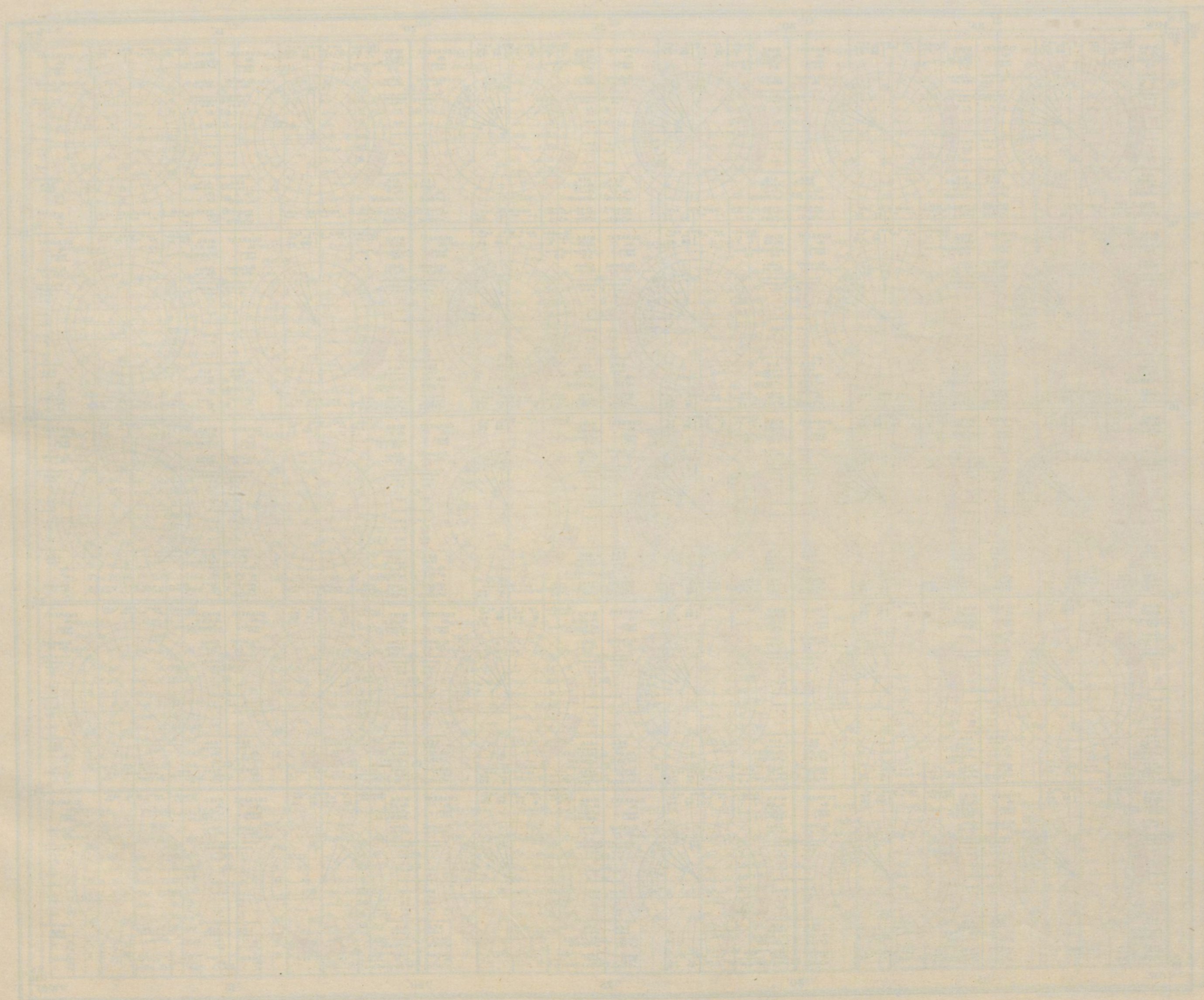
TRANSITARY

WEATHER, CLOUDS, WINDS,
BAROMETER, TEMPERATURE, GRAVITY

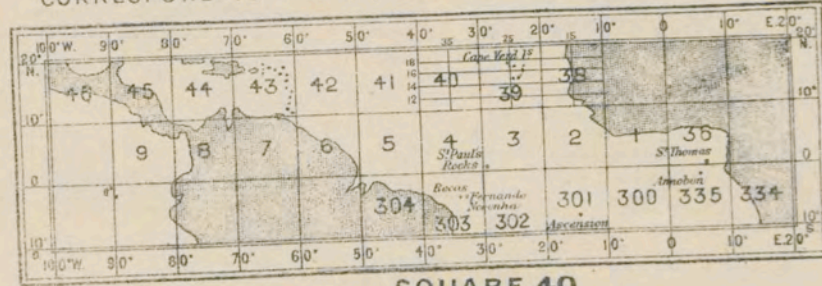
FOOT

FOOT

FOOT



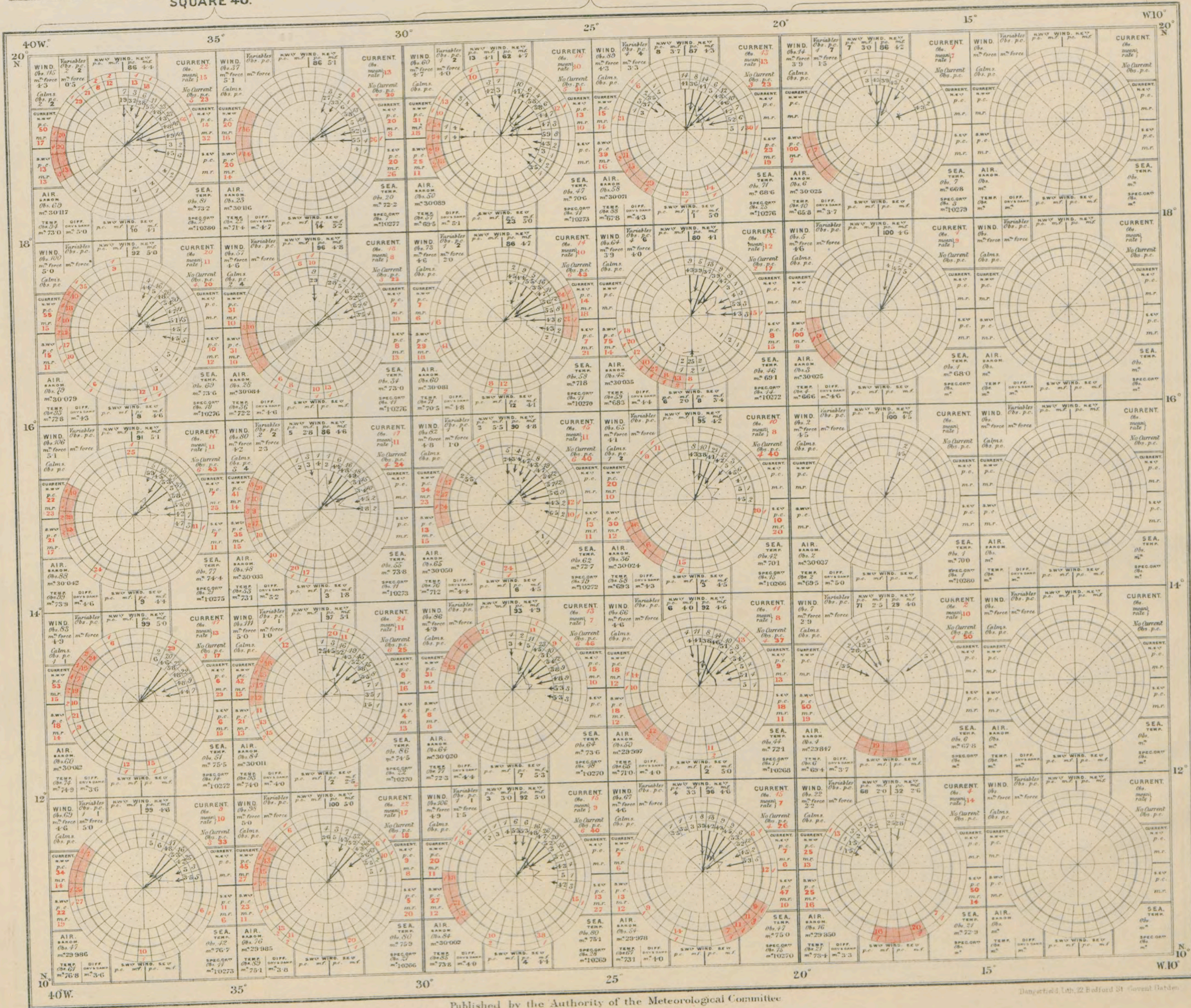
THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



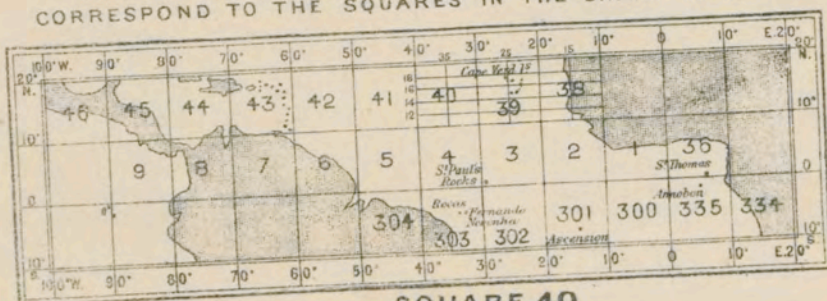
WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 39.

SQUARE 38.



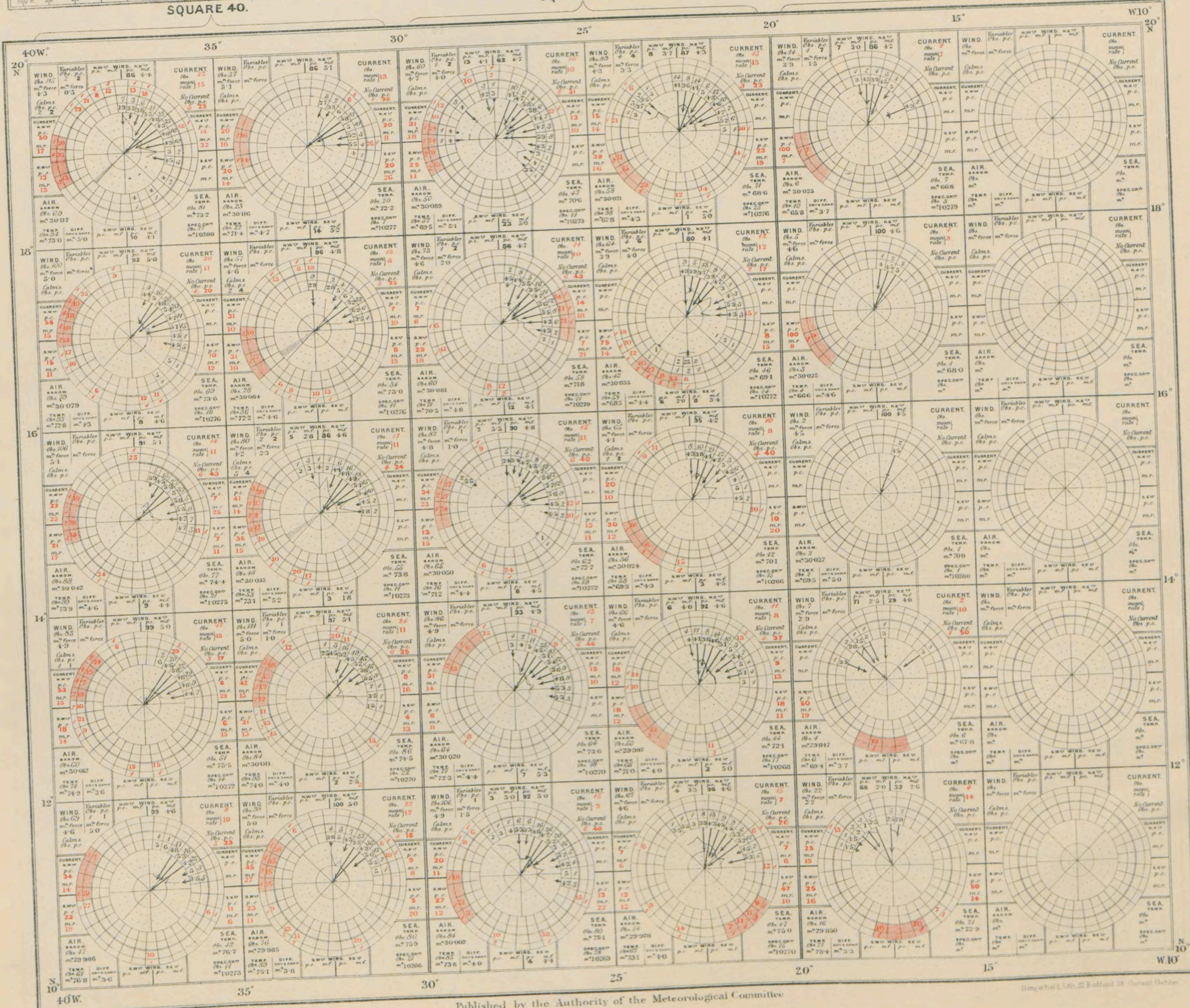
THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 39.

SQUARE 38.



FEBRUARY.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

- 0 Calm
- 1 Light air
- 2 Light breeze
- 3 Gentle breeze
- 4 Moderate breeze
- 5 Fresh breeze
- 6 Strong breeze
- 7 Moderate gale
- 8 Fresh gale
- 9 Strong gale
- 10 Whole gale
- 11 Storm
- 12 Hurricane

Just sufficient to give steering way.
With which a well conditioned ship 1 to 2 knots of way, with all sail set, would go in 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, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

- a Blue sky.
- c Clouds (detached).
- d Drizzling rain.
- f Foggy.
- g Cloudy.
- h Hail.
- i Lightning.
- m Misty (hazy).
- o Overcast.
- p Passing showers.
- q Squally.
- r Rain.
- s Snow.
- t Thunder.
- u Ugly threatening appearance of weather.
- v Visibility. Objects at a distance unusually visible.
- w Dew.

NOTE. To avoid repetition the bar (-) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

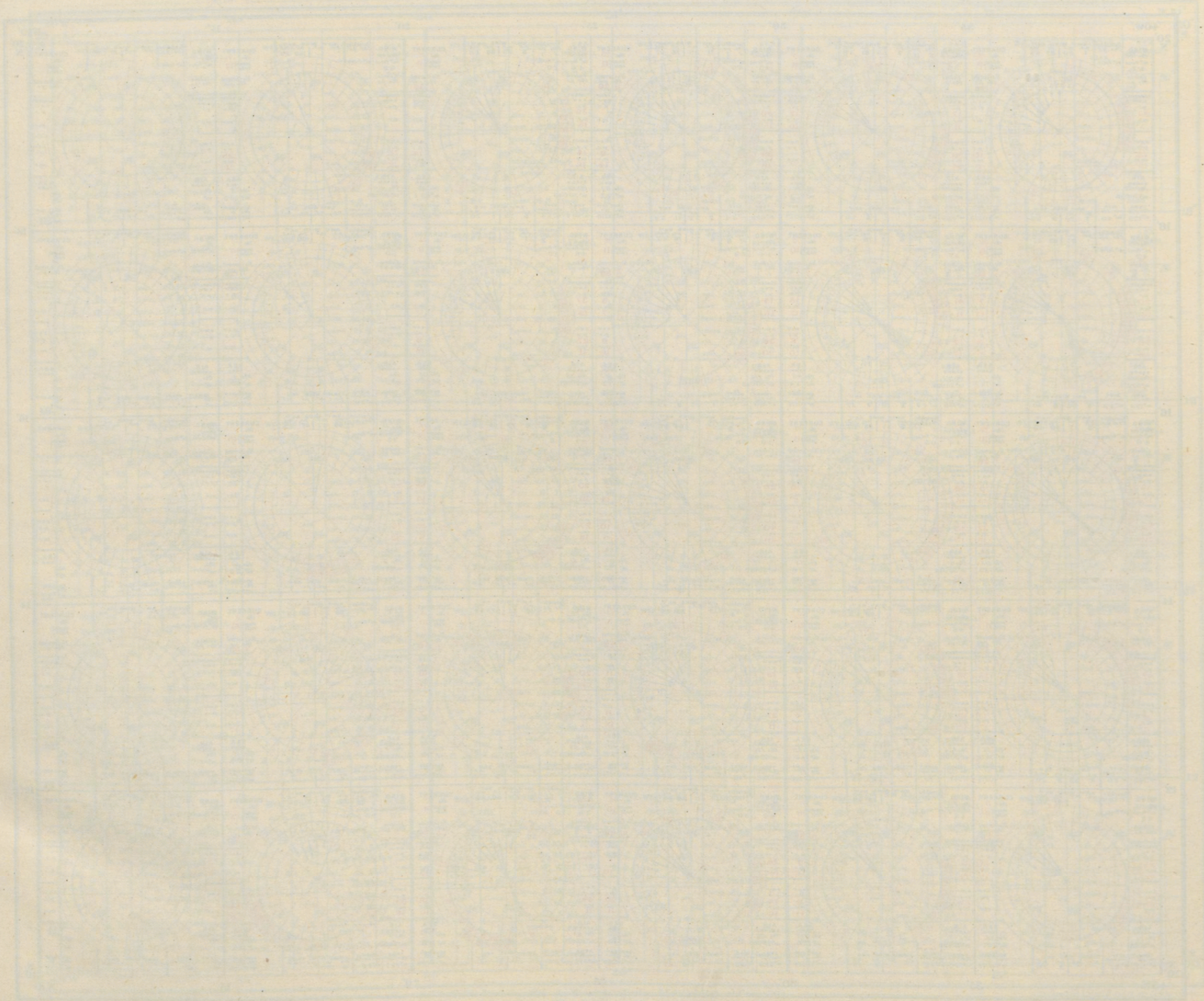
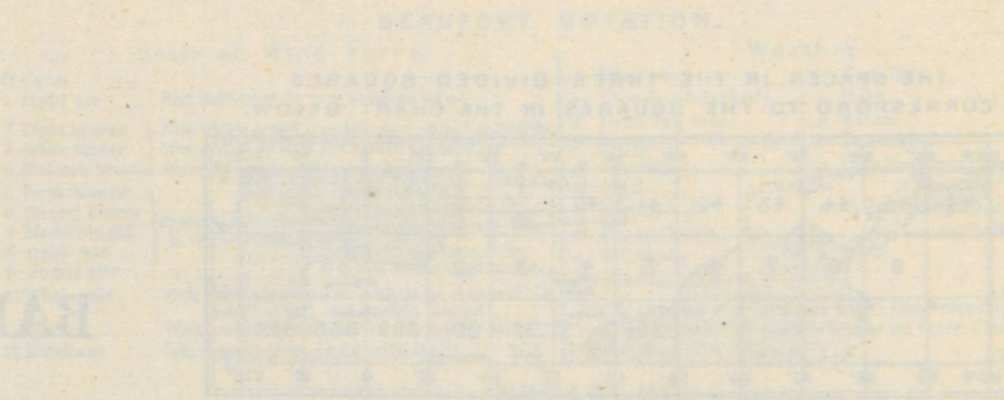
40° W.	35°	30°	25°	20°	15°	10° W.
20° N.	18°	16°	14°	12°	10°	8°
<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>	<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>	<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>	<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>	<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>	<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>	<p>WEATHER. CLOUDS. SEA OR SWELL.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>STORMY. SKY. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>WET. AIR. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p> <p>Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form. Obs. 55. Form.</p>

SQUARES
38, 39, 40.
FEBRUARY.

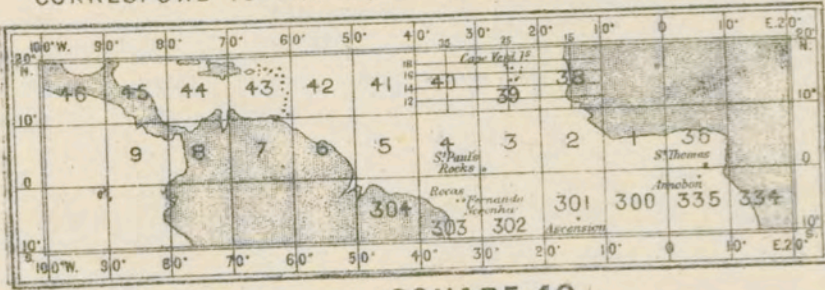
SQUARES
38, 39, 40.
MARCH.

1891

WEATHER, CLOUDS, WINDS, CURRENTS, TEMPERATURE, SPECIFIC GRAVITY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

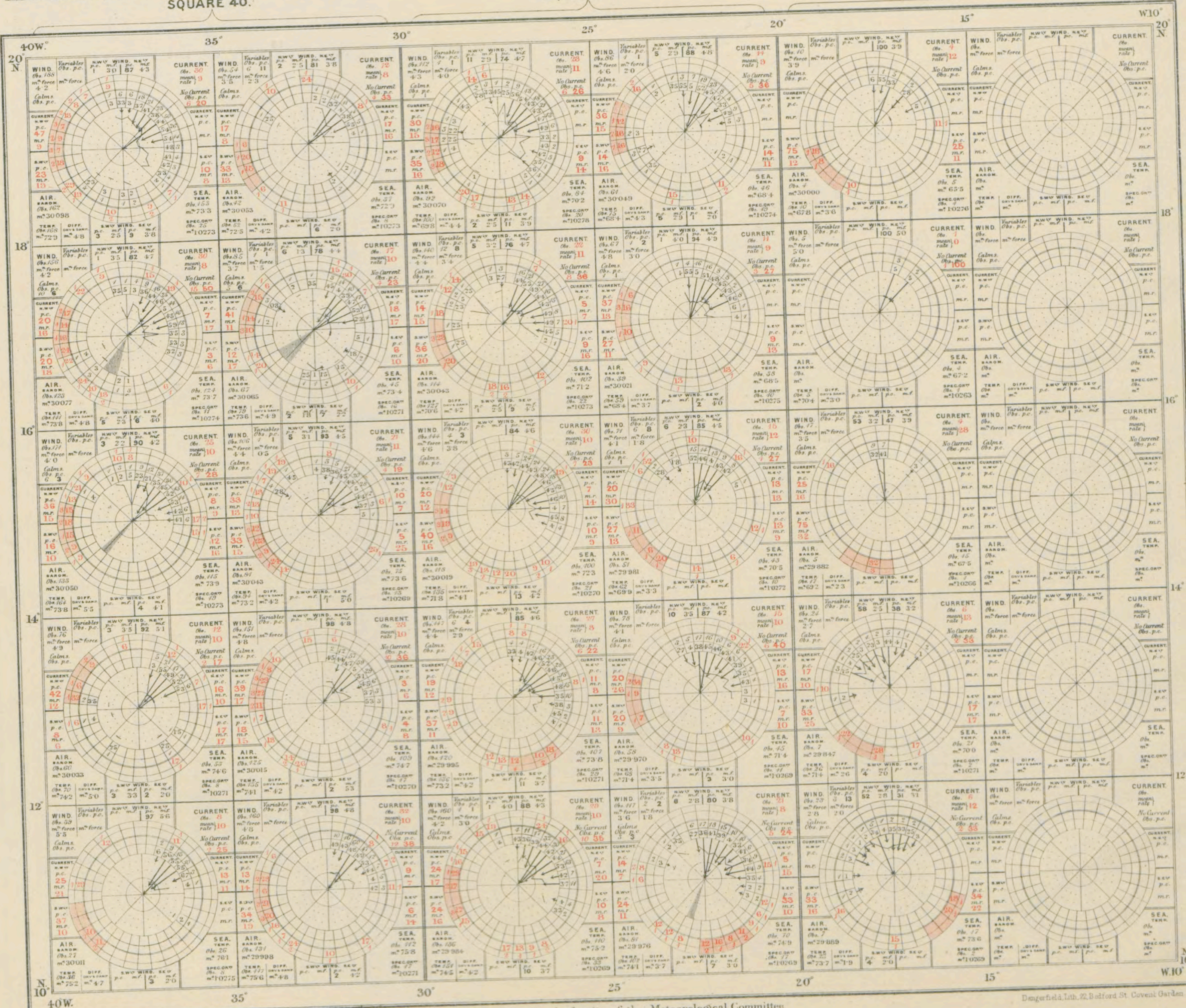


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 40.

SQUARE 39.

SQUARE 38.



MARCH.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

0	Calm	Just sufficient to give steerage way.	
1	Light air	With which a well conditioned ship	1 to 2 knots
2	Breeze	of-war, with all sail set, would go in	3 . 4 .
3	Gentle breeze	smooth water and clean full of	5 . 6 .
4	Moderate breeze		Rovals, &c.
5	Fresh breeze	to which she could carry	Singled reefed top-sail & Gail
6	Strong breeze	in chase, full and by	Double reefed topsails, jib- sails & triple reefed topsails, &c.
7	Strong gale		Closed reefed top-sails &c.
8	Whole gale	With which she could scarcely bear close-reefed main-top-sail and reefed foresail.	
9	Storm	Which would reduce her to storm-stay-sails.	
10	Hurricane	Which no canvas could withstand.	

b Blue sky.	g Squally.
c Clouds (detached).	h Rain.
d Drizzling rain.	i Snow.
f Foggy.	j Thunder.
g Gloomy.	k Ugly threatening appearance of weather.
h Hail.	l Visibility. Objects at a distance unusually visible.
i Lightning.	m Dew.
m Misty (hazy).	
n Overcast.	
p Passing showers.	

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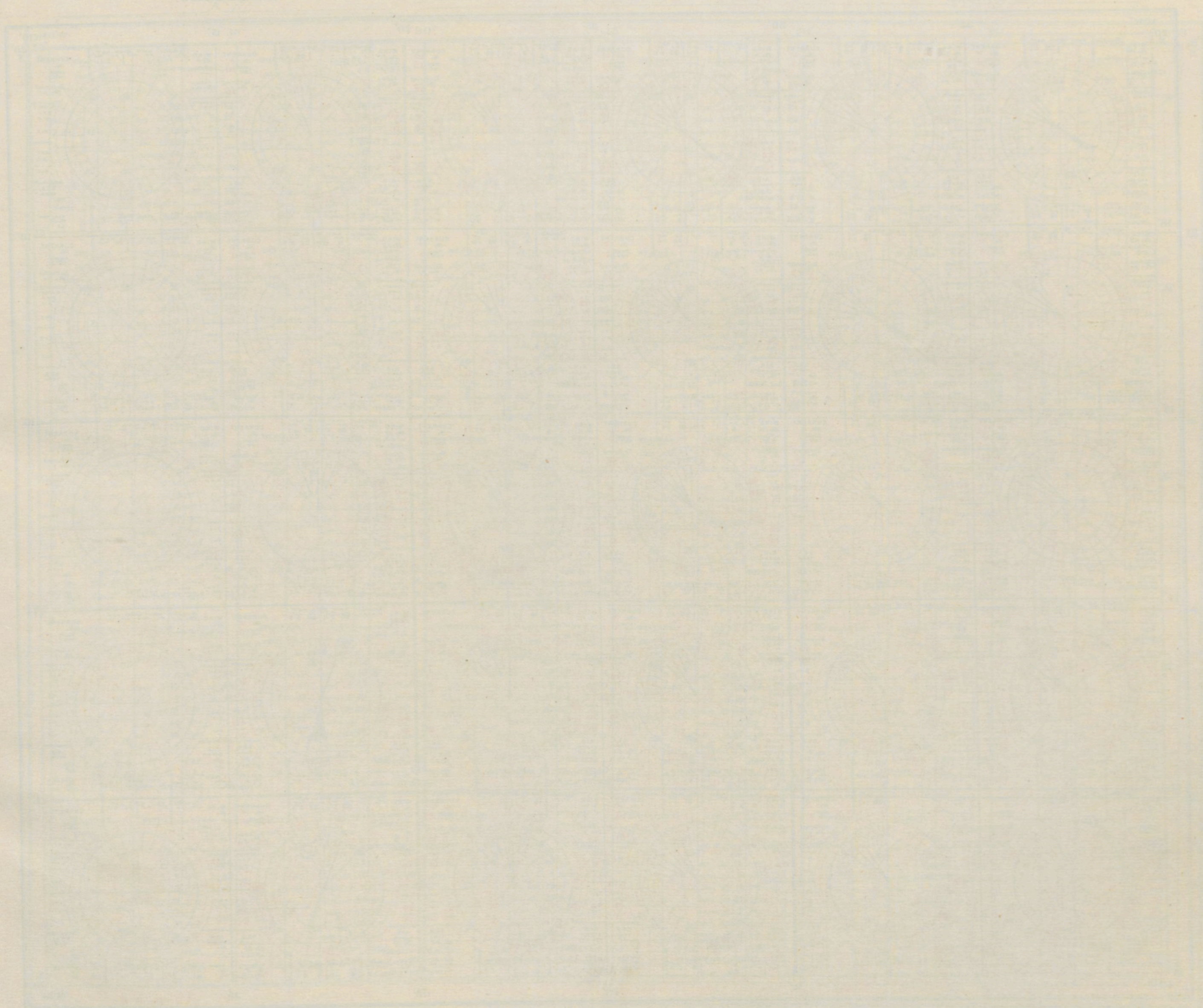
SQUARES
38, 39, 40.
MARCH.

40°W	35°	30°	25°	20°	15°	10°W
20°N						20°N
18						18
16						16
14						14
12						12
10						10
40°W	35°	30°	25°	20°	15°	10°W
20°N						20°N
18						18
16						16
14						14
12						12
10						10
40°W	35°	30°	25°	20°	15°	10°W
20°N						20°N
18						18
16						16
14						14
12						12
10						10
40°W	35°	30°	25°	20°	15°	10°W
20°N						20°N
18						18
16						16
14						14
12						12
10						10

SQUARES

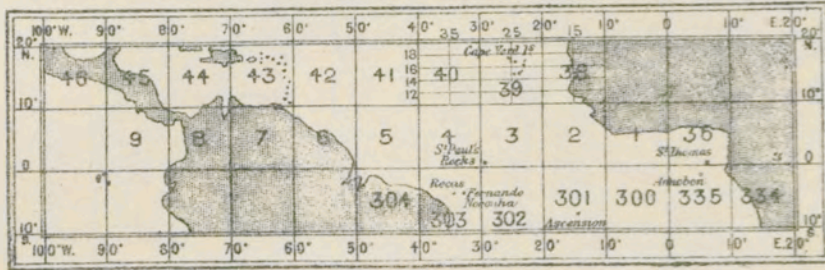
38, 39, 40.

APRIL.



APRIL.

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

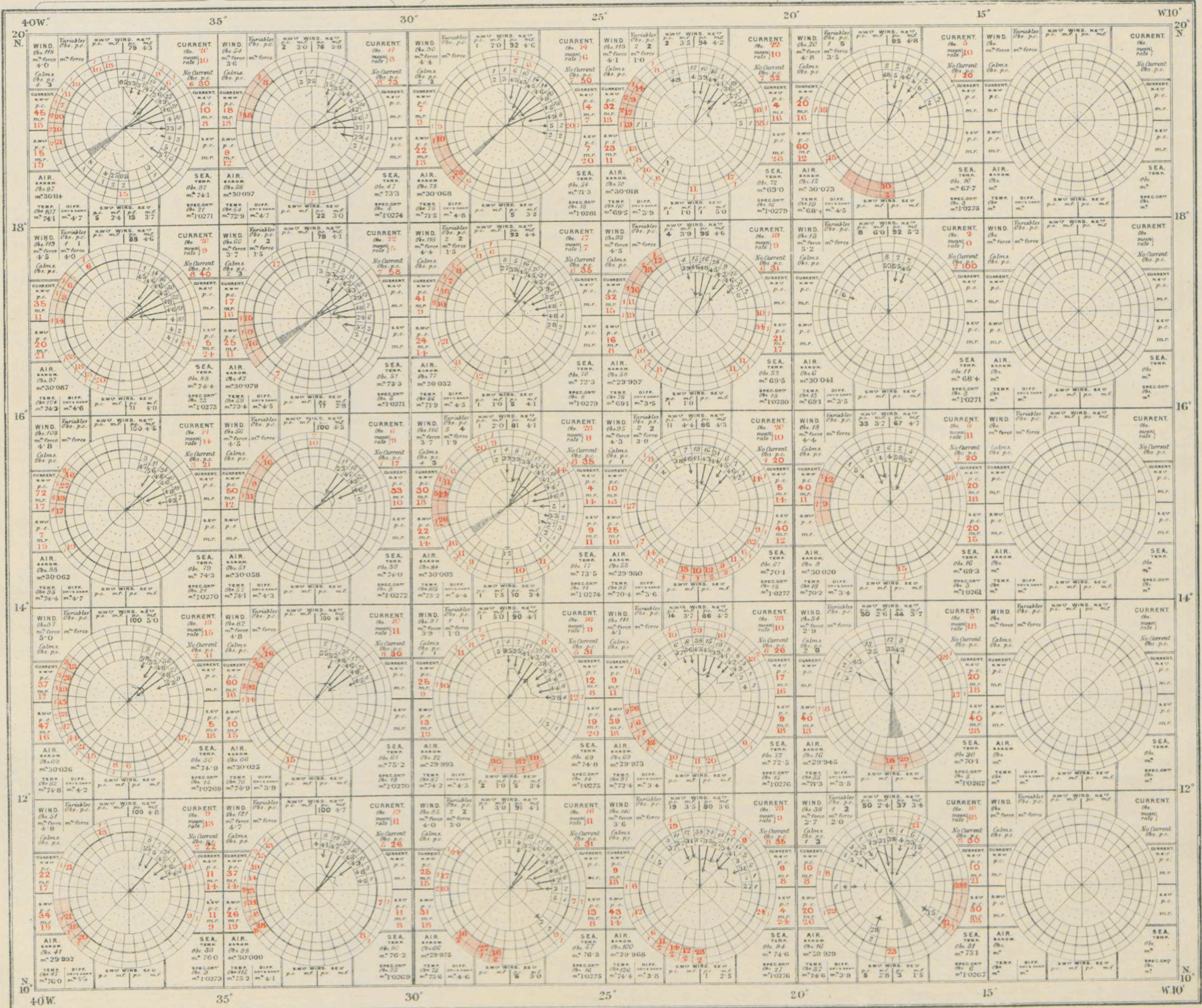


SQUARE 40.

SQUARE 39.

SQUARE 38.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



APRIL.

WEATHER, CLOUDS,
SEA OR SWELL.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship of war with all sail set, would go in 3. 4. smooth water and clean full from 5. 6. Royals, &c.
Single reefed topsails, &c. To which she could carry Double reefed topsails, jib, &c. in chase, full and by. Triple reefed topsails, &c. Close reefed topsails, &c. With which she could scarcely bear close reefed main-top-sail and reefed foresail. Which would reduce her to storm-stay sails. Which no canvas could withstand.

- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
l Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
q Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance of weather.
v Visibility. Objects at a distance unusually visible.
w Dew.
- NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

SQUARE 40.

SQUARE 39.

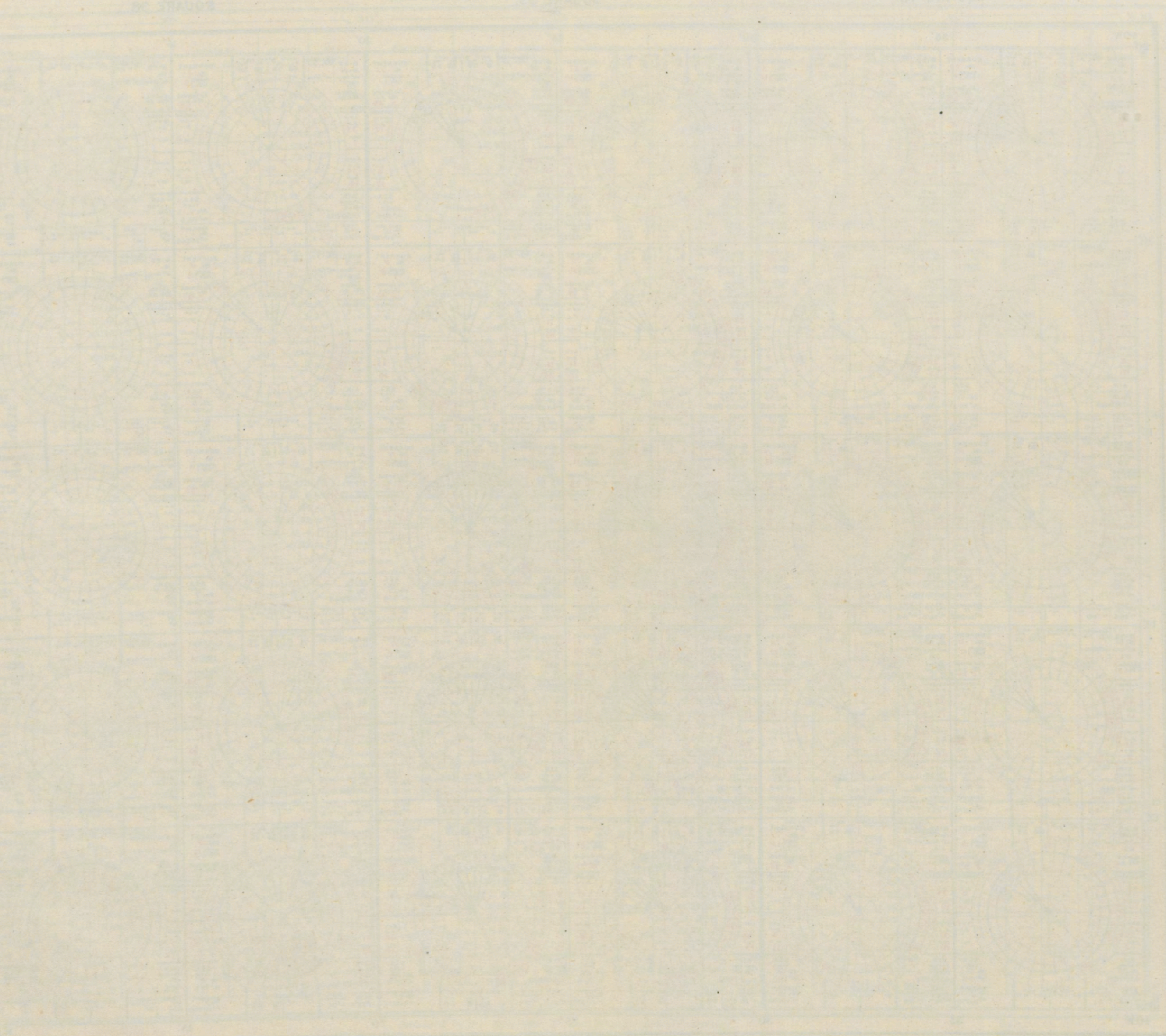
SQUARE 38.

40°W.			35°			30°			25°			20°			15°			10°W.		
20°N.			18°			16°			14°			12°			10°			8°		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
FORM.			FORM.			FORM.			FORM.			FORM.			FORM.			FORM.		
Obs. 90			Obs. 47			Obs. 54			Obs. 64			Obs. 12			Obs. 7			Obs. 11		
STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.		
Obs. 90			Obs. 47			Obs. 54			Obs. 64			Obs. 12			Obs. 7			Obs. 11		
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Obs. 90			Obs. 47			Obs. 54			Obs. 64			Obs. 12			Obs. 7			Obs. 11		
Obs. 90			Obs. 47			Obs. 54			Obs. 64			Obs. 12			Obs. 7			Obs. 11		
Obs. 90			Obs. 47			Obs. 54			Obs. 64			Obs. 12			Obs. 7			Obs. 11		

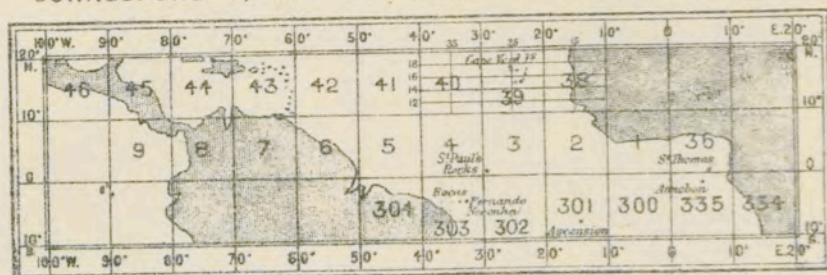
SQUARES
38, 39, 40.
MAY.

M

WEATHER, CLOUDS,
WINDS, CURRENTS,
SEA OR SWELL,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

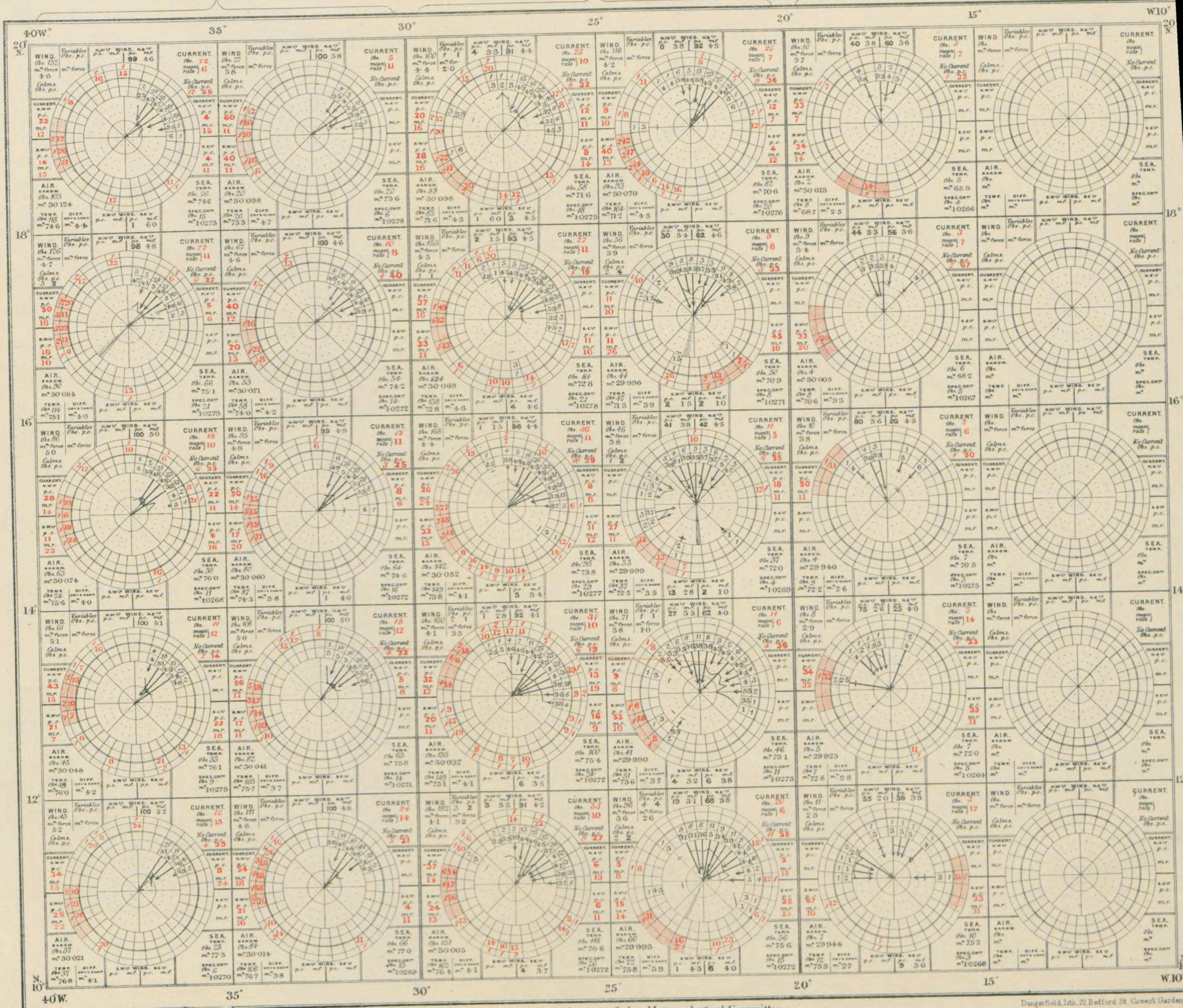


SQUARE 40.

SQUARE 39.

SQUARE 38.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



MAY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.
Scale of Wind Force.

0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane

Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots of way with all sail set would go in 3. 4.
smooth water and 'clean full' from 5. 6.
Rough &c.
Single reefed topsails &c.
Double reefed topsails, &c.
Triple reefed topsails, &c.
Close reefed topsails &c.
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-sail-sails.
Which no canvas could withstand.

Weather.

b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
l Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.

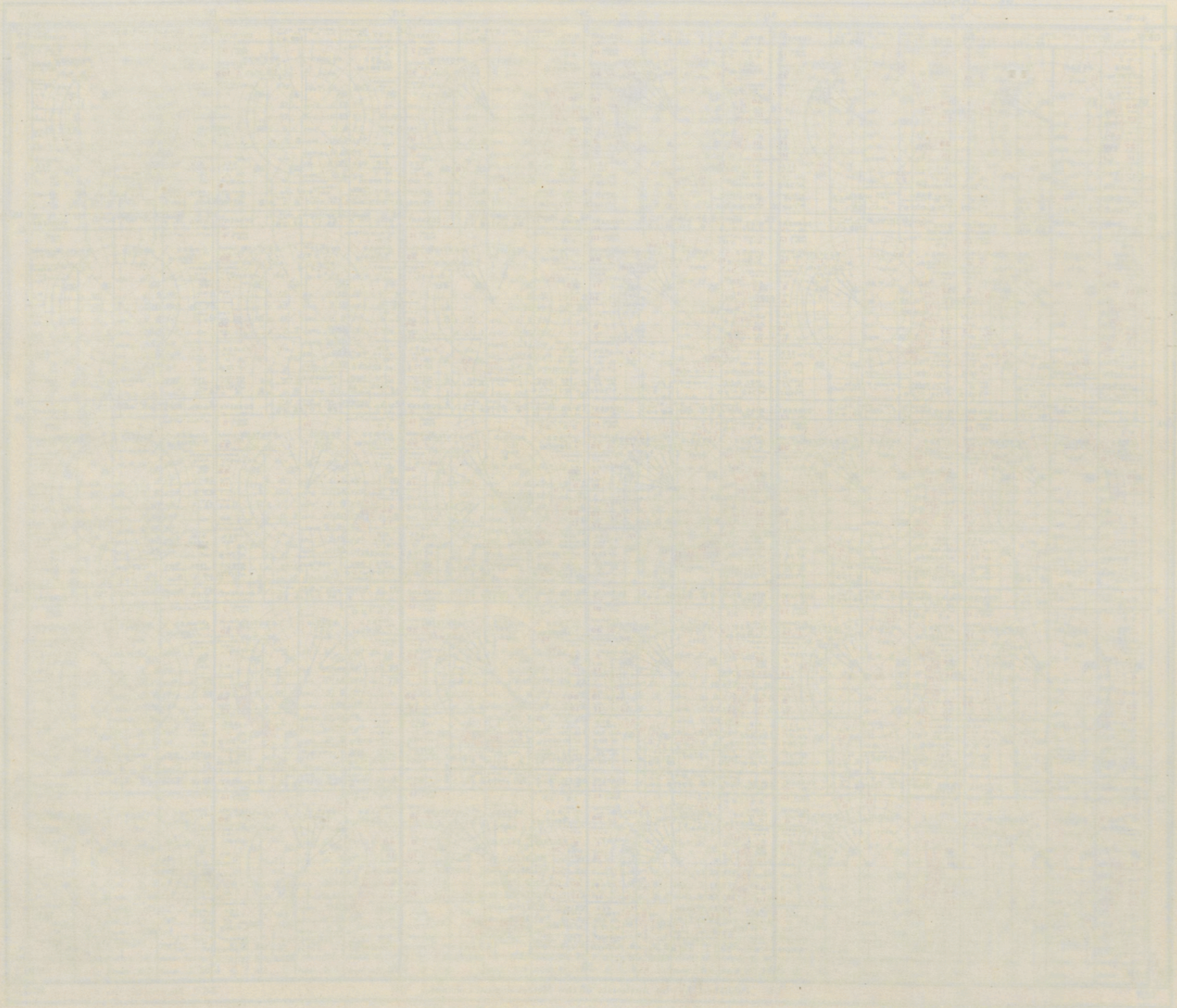
g Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance of weather.
v Visibility. Objects at a distance unusually visible.
w Dew.

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

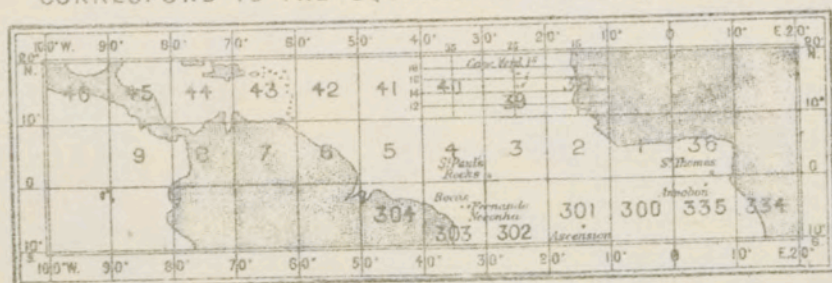
SQUARES
38, 39, 40.
MAY.

40° W.			35°			30°			25°			20°			15°			10° W.		
20° N.			18°			16°			14°			12°			10°			8°		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. 102			Obs. 86			Obs. 37			Obs. 12			Obs. 20			Obs. 19			Obs. 7		
STORMY.	SKY.	Obs. 102	STORMY.	SKY.	Obs. 86	STORMY.	SKY.	Obs. 37	STORMY.	SKY.	Obs. 12	STORMY.	SKY.	Obs. 20	STORMY.	SKY.	Obs. 19	STORMY.	SKY.	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
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—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
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—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
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—	—	Obs. 102	—	—	Obs. 86	—	—	Obs. 37	—	—	Obs. 12	—	—	Obs. 20	—	—	Obs. 19	—	—	Obs. 7
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—	—	Obs. 102	—	—																

SQUARES
38, 39, 40.
JUNE.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

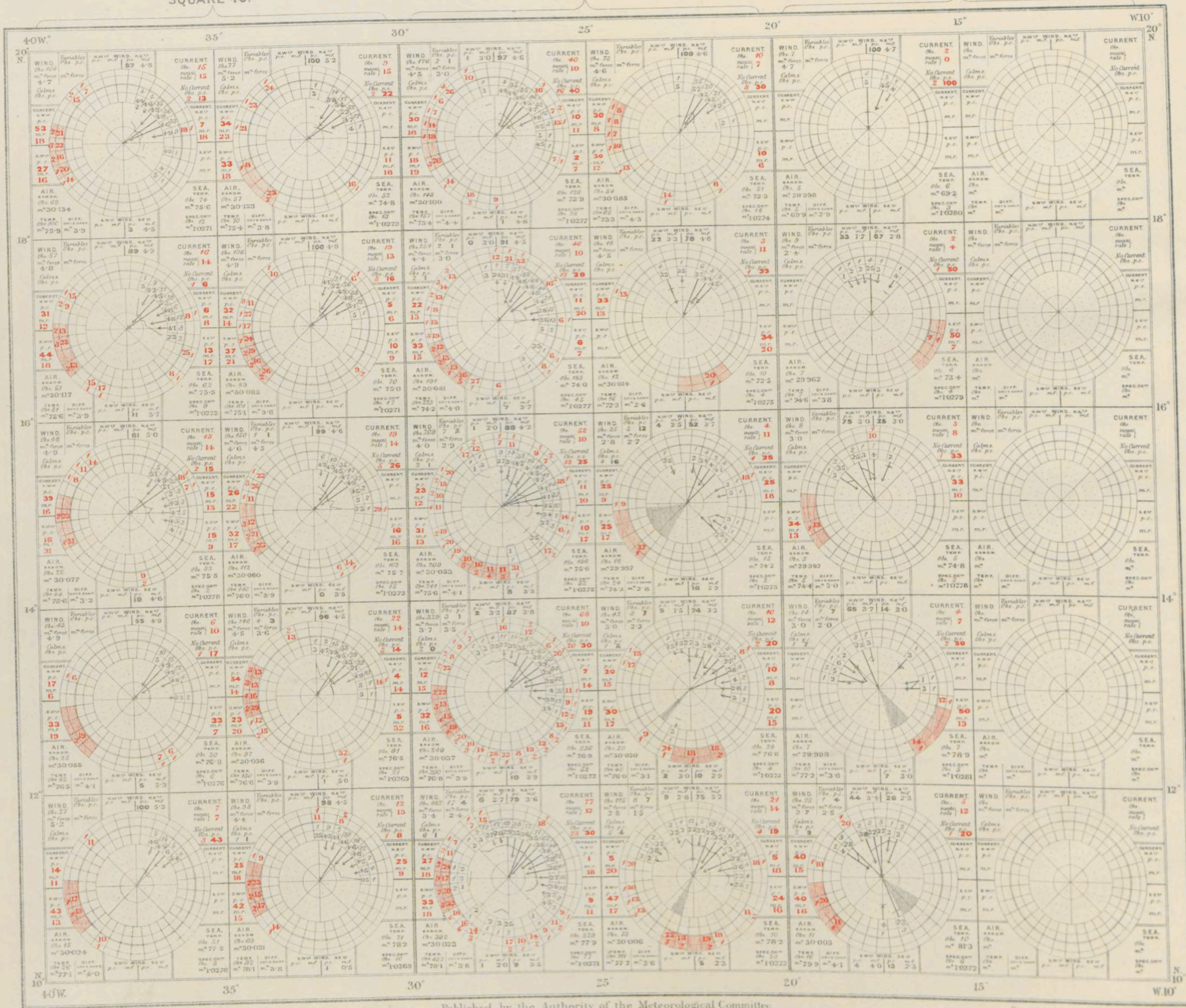


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 40.

SQUARE 39.

SQUARE 38.



JUNE.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship (1 to 2 knots) of war with all sail set, would go in 3. 4
smooth water and clean full from S. 6
Royals &c.
Single reefed topsails & Gsails
Double reefed topsails, jib &c.
Triple reefed topsails, &c.
(Close reefed topsails & courses)
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-stay sails.
Which no canvas could withstand.

- b Blue sky.
c Clouds (detached).
d Drizzling rain.
e Foggy.
f Gloomy.
g Hail.
h Lightning.
i Misty (hazy).
m Overcast.
p Passing showers.
- g Squally.
r Rain.
s Snow.
t Thunder.
u Ugly (threatening appearance) of weather.
v Visibility, Objects at a distance unusually visible.
w Dew.

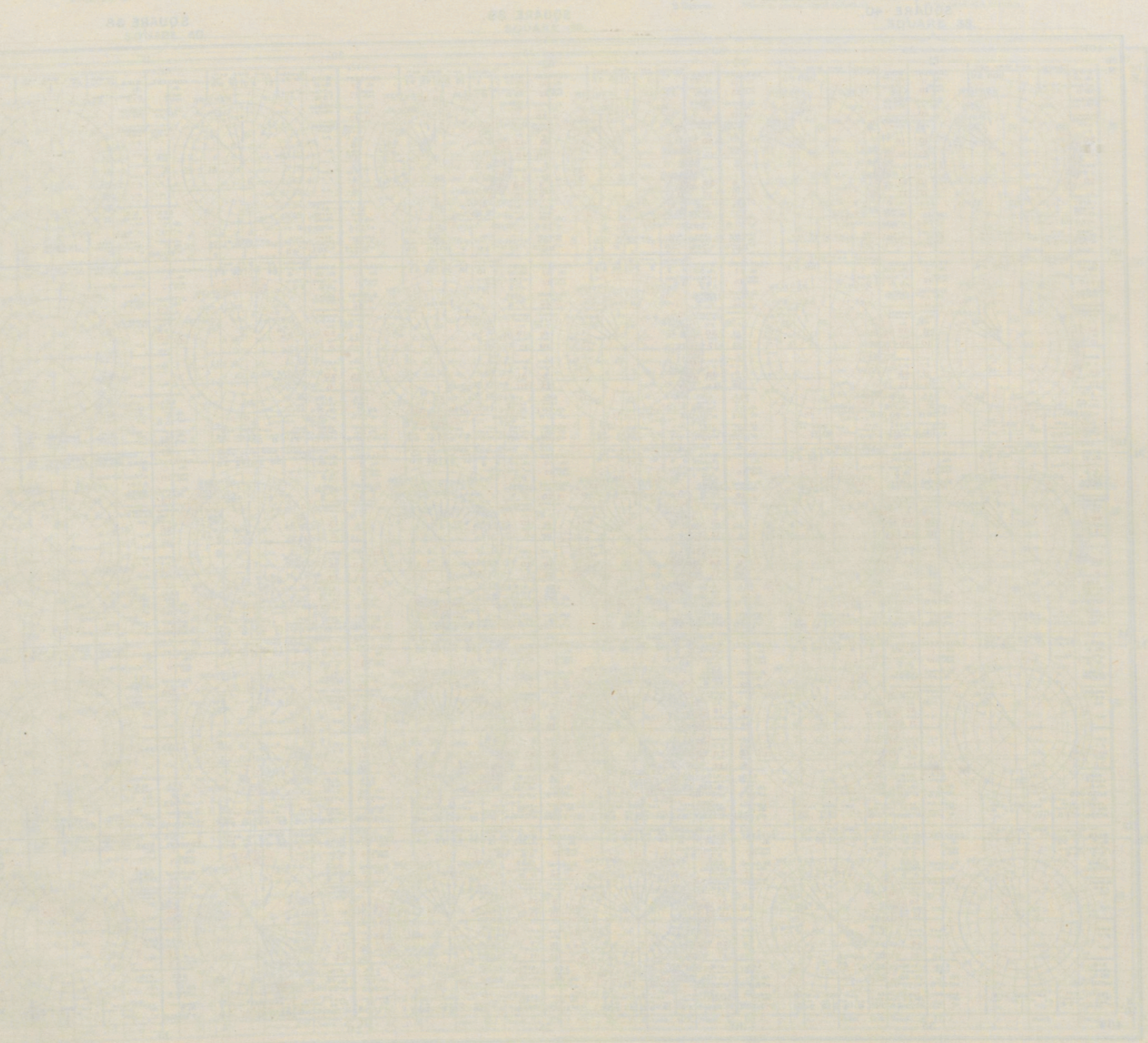
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SQUARES
38, 39, 40.
JUNE.

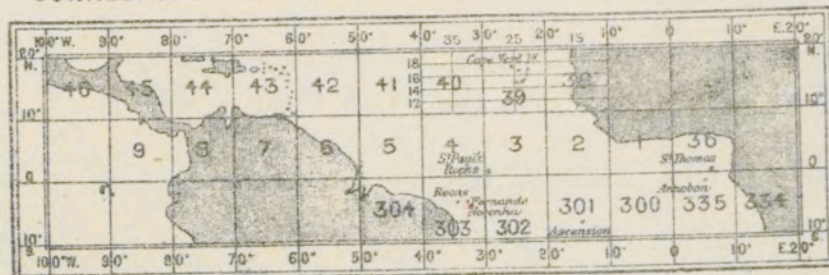
40° W.			35°			30°			25°			20°			15°			10° W.		
20° N.			18°			16°			14°			12°			10°			8°		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. 81			Obs. 82			Obs. 83			Obs. 84			Obs. 85			Obs. 86			Obs. 87		
STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.		
b. 46			b. 46			b. 46			b. 46			b. 46			b. 46			b. 46		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13			g. 13			g. 13		
h. 13			h. 13			h. 13			h. 13			h. 13			h. 13			h. 13		
i. 13			i. 13			i. 13			i. 13			i. 13			i. 13			i. 13		
m. 13			m. 13			m. 13			m. 13			m. 13			m. 13			m. 13		
p. 13			p. 13			p. 13			p. 13			p. 13			p. 13			p. 13		
w. 13			w. 13			w. 13			w. 13			w. 13			w. 13			w. 13		
v. 13			v. 13			v. 13			v. 13			v. 13			v. 13			v. 13		
u. 13			u. 13			u. 13			u. 13			u. 13			u. 13			u. 13		
t. 13			t. 13			t. 13			t. 13			t. 13			t. 13			t. 13		
s. 13			s. 13			s. 13			s. 13			s. 13			s. 13			s. 13		
r. 13			r. 13			r. 13			r. 13			r. 13			r. 13			r. 13		
q. 13			q. 13			q. 13			q. 13			q. 13			q. 13			q. 13		
n. 13			n. 13			n. 13			n. 13			n. 13			n. 13			n. 13		
o. 13			o. 13			o. 13			o. 13			o. 13			o. 13			o. 13		
a. 13			a. 13			a. 13			a. 13			a. 13			a. 13			a. 13		
b. 13			b. 13			b. 13			b. 13			b. 13			b. 13			b. 13		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13			g. 13			g. 13		
h. 13			h. 13			h. 13			h. 13			h. 13			h. 13			h. 13		
i. 13			i. 13			i. 13			i. 13			i. 13			i. 13			i. 13		
m. 13			m. 13			m. 13			m. 13			m. 13			m. 13			m. 13		
p. 13			p. 13			p. 13			p. 13			p. 13			p. 13			p. 13		
w. 13			w. 13			w. 13			w. 13			w. 13			w. 13			w. 13		
v. 13			v. 13			v. 13			v. 13			v. 13			v. 13			v. 13		
u. 13			u. 13			u. 13			u. 13			u. 13			u. 13			u. 13		
t. 13			t. 13			t. 13			t. 13			t. 13			t. 13			t. 13		
s. 13			s. 13			s. 13			s. 13			s. 13			s. 13			s. 13		
r. 13			r. 13			r. 13			r. 13			r. 13			r. 13			r. 13		
q. 13			q. 13			q. 13			q. 13			q. 13			q. 13			q. 13		
n. 13			n. 13			n. 13			n. 13			n. 13			n. 13			n. 13		
o. 13			o. 13			o. 13			o. 13			o. 13			o. 13			o. 13		
a. 13			a. 13			a. 13			a. 13			a. 13			a. 13			a. 13		
b. 13			b. 13			b. 13			b. 13			b. 13			b. 13			b. 13		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13			g. 13			g. 13		
h. 13			h. 13			h. 13			h. 13			h. 13			h. 13			h. 13		
i. 13			i. 13			i. 13			i. 13			i. 13			i. 13			i. 13		
m. 13			m. 13			m. 13			m. 13			m. 13			m. 13			m. 13		
p. 13			p. 13			p. 13			p. 13			p. 13			p. 13			p. 13		
w. 13			w. 13			w. 13			w. 13			w. 13			w. 13			w. 13		
v. 13			v. 13			v. 13			v. 13			v. 13			v. 13			v. 13		
u. 13			u. 13			u. 13			u. 13			u. 13			u. 13			u. 13		
t. 13			t. 13			t. 13			t. 13			t. 13			t. 13			t. 13		
s. 13			s. 13			s. 13			s. 13			s. 13			s. 13			s. 13		
r. 13			r. 13			r. 13			r. 13			r. 13			r. 13			r. 13		
q. 13			q. 13			q. 13			q. 13			q. 13			q. 13			q. 13		
n. 13			n. 13			n. 13			n. 13			n. 13			n. 13			n. 13		
o. 13			o. 13			o. 13			o. 13			o. 13			o. 13			o. 13		
a. 13			a. 13			a. 13			a. 13			a. 13			a. 13			a. 13		
b. 13			b. 13			b. 13			b. 13			b. 13			b. 13			b. 13		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13			g. 13			g. 13		
h. 13			h. 13			h. 13			h. 13			h. 13			h. 13			h. 13		
i. 13			i. 13			i. 13			i. 13			i. 13			i. 13			i. 13		
m. 13			m. 13			m. 13			m. 13			m. 13			m. 13			m. 13		
p. 13			p. 13			p. 13			p. 13			p. 13			p. 13			p. 13		
w. 13			w. 13			w. 13			w. 13			w. 13			w. 13			w. 13		
v. 13			v. 13			v. 13			v. 13			v. 13			v. 13			v. 13		
u. 13			u. 13			u. 13			u. 13			u. 13			u. 13			u. 13		
t. 13			t. 13			t. 13			t. 13			t. 13			t. 13			t. 13		
s. 13			s. 13			s. 13			s. 13			s. 13			s. 13			s. 13		
r. 13			r. 13			r. 13			r. 13			r. 13			r. 13			r. 13		
q. 13			q. 13			q. 13			q. 13			q. 13			q. 13			q. 13		
n. 13			n. 13			n. 13			n. 13			n. 13			n. 13			n. 13		
o. 13			o. 13			o. 13			o. 13			o. 13			o. 13			o. 13		
a. 13			a. 13			a. 13			a. 13			a. 13			a. 13			a. 13		
b. 13			b. 13			b. 13			b. 13			b. 13			b. 13			b. 13		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13			g. 13			g. 13		
h. 13			h. 13			h. 13			h. 13			h. 13			h. 13			h. 13		
i. 13			i. 13			i. 13			i. 13			i. 13			i. 13			i. 13		
m. 13			m. 13			m. 13			m. 13			m. 13			m. 13			m. 13		
p. 13			p. 13			p. 13			p. 13			p. 13			p. 13			p. 13		
w. 13			w. 13			w. 13			w. 13			w. 13			w. 13			w. 13		
v. 13			v. 13			v. 13			v. 13			v. 13			v. 13			v. 13		
u. 13			u. 13			u. 13			u. 13			u. 13			u. 13			u. 13		
t. 13			t. 13			t. 13			t. 13			t. 13			t. 13			t. 13		
s. 13			s. 13			s. 13			s. 13			s. 13			s. 13			s. 13		
r. 13			r. 13			r. 13			r. 13			r. 13			r. 13			r. 13		
q. 13			q. 13			q. 13			q. 13			q. 13			q. 13			q. 13		
n. 13			n. 13			n. 13			n. 13			n. 13			n. 13			n. 13		
o. 13			o. 13			o. 13			o. 13			o. 13			o. 13			o. 13		
a. 13			a. 13			a. 13			a. 13			a. 13			a. 13			a. 13		
b. 13			b. 13			b. 13			b. 13			b. 13			b. 13			b. 13		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13			g. 13			g. 13		
h. 13			h. 13			h. 13			h. 13			h. 13			h. 13			h. 13		
i. 13			i. 13			i. 13			i. 13			i. 13			i. 13			i. 13		
m. 13			m. 13			m. 13			m. 13			m. 13			m. 13			m. 13		
p. 13			p. 13			p. 13			p. 13			p. 13			p. 13			p. 13		
w. 13			w. 13			w. 13			w. 13			w. 13			w. 13			w. 13		
v. 13			v. 13			v. 13			v. 13			v. 13			v. 13			v. 13		
u. 13			u. 13			u. 13			u. 13			u. 13			u. 13			u. 13		
t. 13			t. 13			t. 13			t. 13			t. 13			t. 13			t. 13		
s. 13			s. 13			s. 13			s. 13			s. 13			s. 13			s. 13		
r. 13			r. 13			r. 13			r. 13			r. 13			r. 13			r. 13		
q. 13			q. 13			q. 13			q. 13			q. 13			q. 13			q. 13		
n. 13			n. 13			n. 13			n. 13			n. 13			n. 13			n. 13		
o. 13			o. 13			o. 13			o. 13			o. 13			o. 13			o. 13		
a. 13			a. 13			a. 13			a. 13			a. 13			a. 13			a. 13		
b. 13			b. 13			b. 13			b. 13			b. 13			b. 13			b. 13		
c. 13			c. 13			c. 13			c. 13			c. 13			c. 13			c. 13		
d. 13			d. 13			d. 13			d. 13			d. 13			d. 13			d. 13		
e. 13			e. 13			e. 13			e. 13			e. 13			e. 13			e. 13		
f. 13			f. 13			f. 13			f. 13			f. 13			f. 13			f. 13		
g. 13			g. 13			g. 13			g. 13			g. 13								

SQUARES
38, 39, 40.
JULY.

WEATHER, CLOUDS, WINDS, CURRENTS,
SUN, MOON, PLANETS, STARS, GRAVITY,
TEMPERATURE, BAROMETER, ALTITUDE,
TIME, TIDE, etc.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

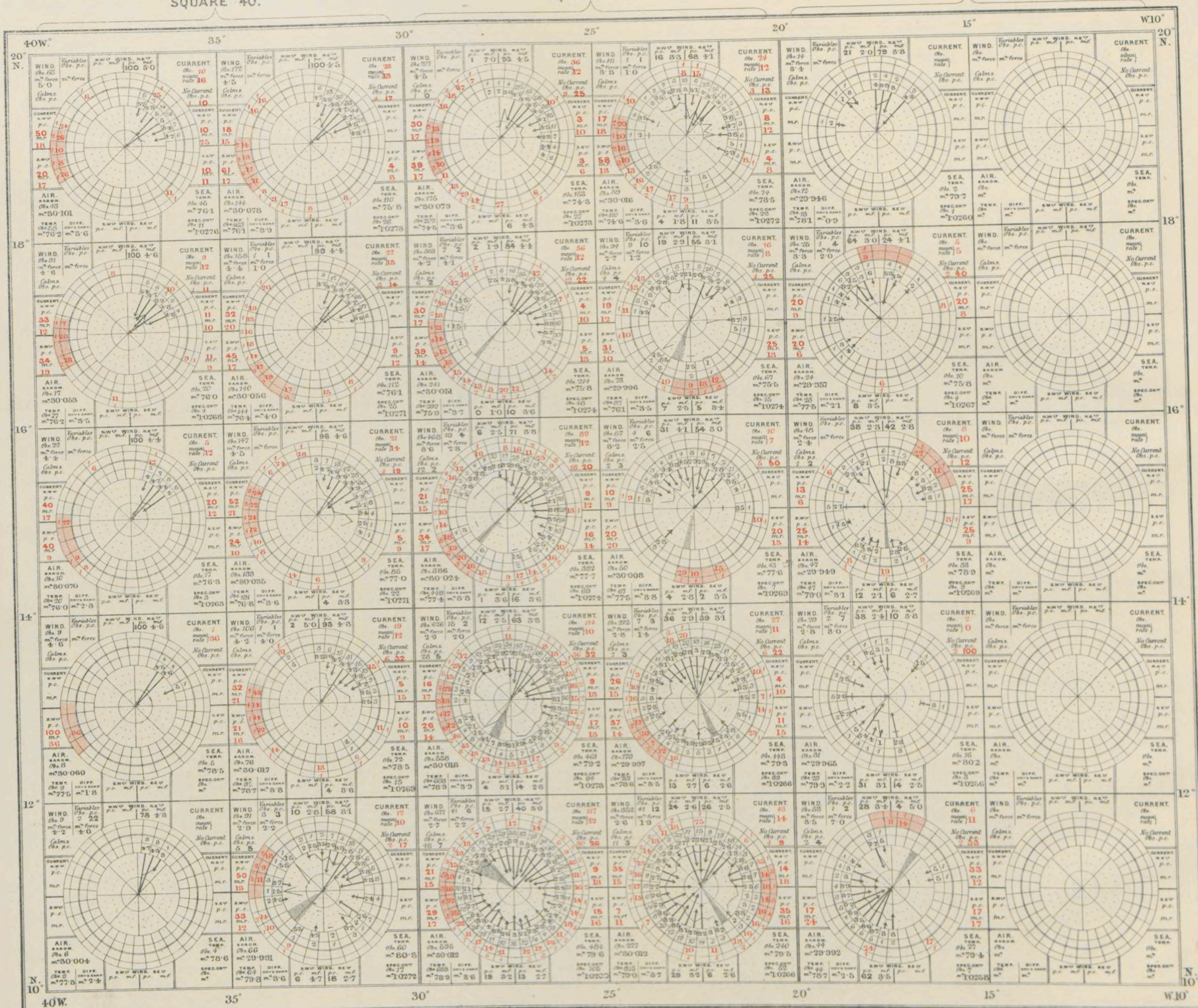


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 40.

SQUARE 39.

SQUARE 38.



JULY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

SQUARES
38, 39, 40.
JULY.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

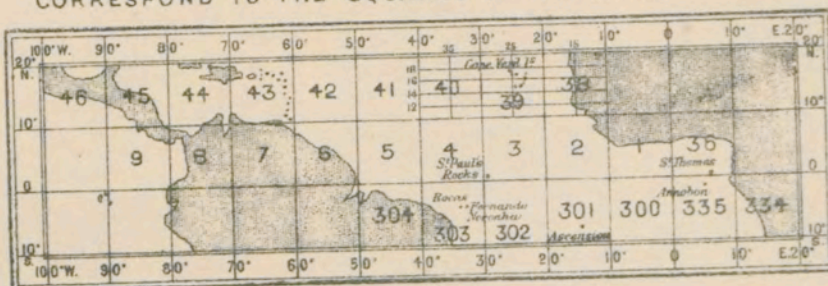
- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots
of way with all sail set, would go in 3. 4
smooth water and clean full from 5. 6
Royals &c.
Single reefed topsails & T. G. sails
Double reefed topsails, jib &c.
Triple reefed topsails &c.
Close reefed topsails & courses
With which she could scarcely bear close reefed
main-top-sail and reefed foresail.
Which would reduce her to storm-stay sails.
Which no canvas could withstand.

- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
i Lightning.
m Misty (hozy).
o Overcast.
p Passing showers.
- 7 Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance
of weather.
v Visibility. Objects at a distance
unusually visible.
w Dew.

NOTE. To avoid repetition the bar (—) representing intensity,
usually given below each letter, is on these Charts given
at the head of a column.

40° W.			35°			30°			25°			20°			15°			10° W.		
20° N.			18°			16°			14°			12°			10°			8°		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. 51			Obs. 147			Obs. 163			Obs. 296			Obs. 4			Obs. 13			Obs. 18		
STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.			STORMY. SKY.		
Obs. 24			Obs. 62			Obs. 38			Obs. 48			Obs. 1			Obs. 1			Obs. 1		
Obs. 35			Obs. 95			Obs. 70			Obs. 44			Obs. 2			Obs. 2			Obs. 2		
Obs. 19			Obs. 28			Obs. 4			Obs. 21			Obs. 7			Obs. 7			Obs. 7		
Obs. 4			Obs. 11			Obs. 1			Obs. 3			Obs. 2			Obs. 2			Obs. 2		
Obs. 22			Obs. 44			Obs. 69			Obs. 29			Obs. 8			Obs. 8			Obs. 8		
Obs. 19			Obs. 22			Obs. 11			Obs. 2			Obs. 2			Obs. 2			Obs. 2		
Obs. 8			Obs. 22			Obs. 11			Obs. 2			Obs. 2			Obs. 2			Obs. 2		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
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Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19			Obs. 19		
Obs. 19			Obs. 19			Obs. 19														

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

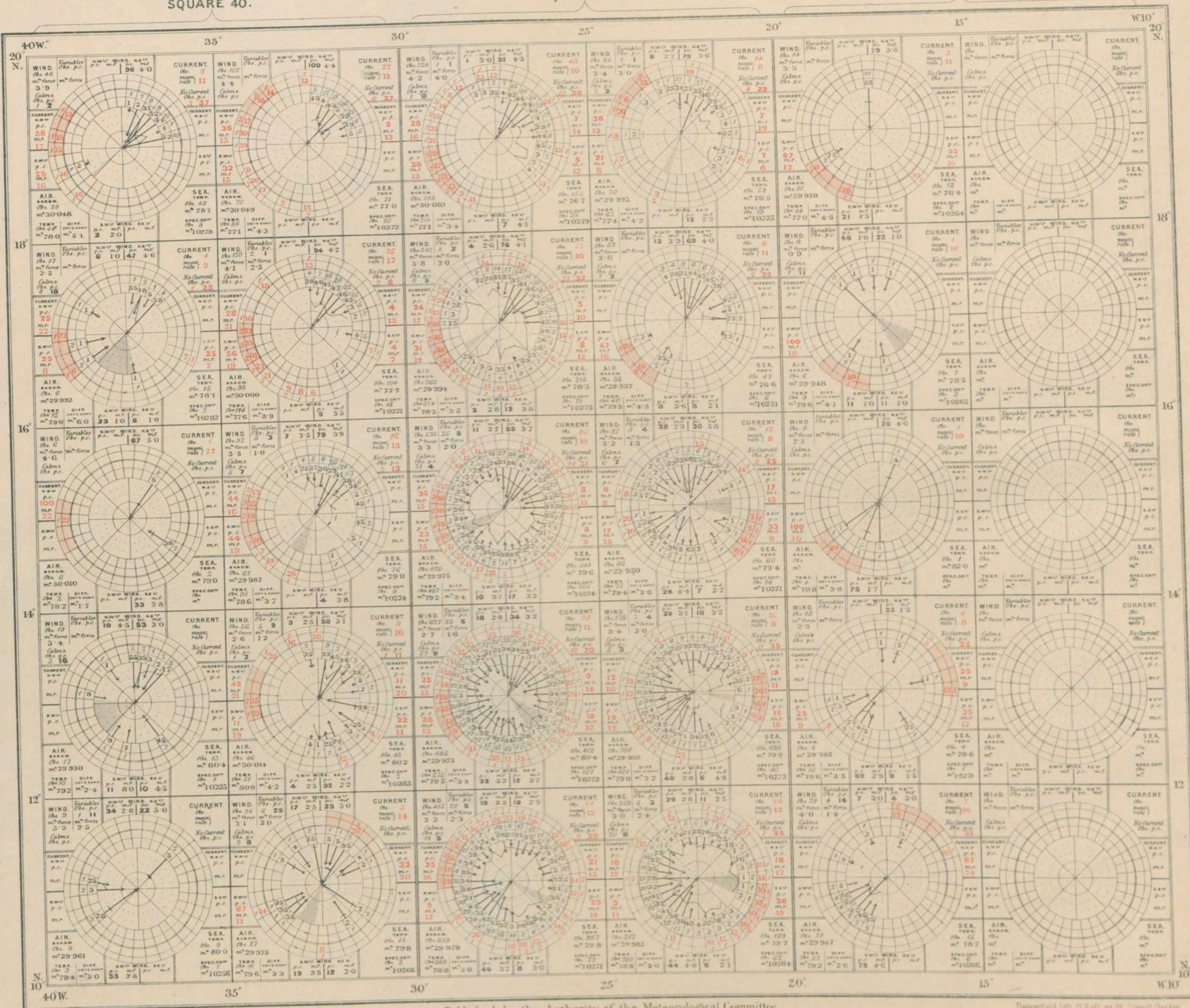


SQUARE 40.

SQUARE 39.

SQUARE 38.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38

BEAUFORT NOTATION.

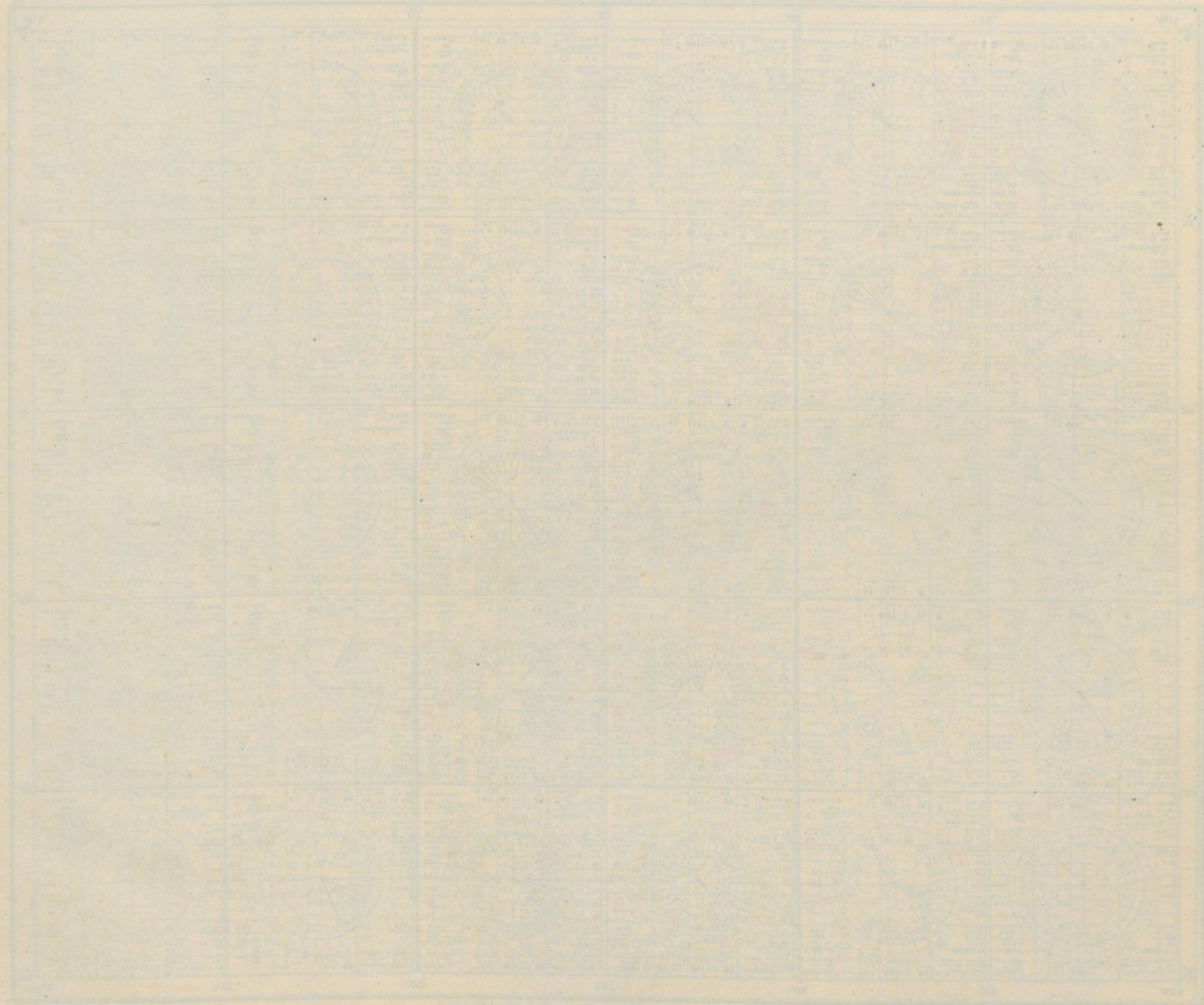
Scale of Wind Force.

Weather.

- | Scale of Wind Force. | | Weather. | |
|----------------------|--|----------------------|-------------------------------------|
| 0 Calm | | b Blue sky. | g Squally. |
| 1 Light air | Just sufficient to give steerage way. | c Clouds (detached). | r Rain. |
| 2 Light breeze | With which a well conditioned ship 1 to 2 knots | d Drizzling rain. | s Snow. |
| 3 Gentle breeze | of war with all sail set, would go in 3. 4 - | f Foggy. | t Thunder. |
| 4 Moderate breeze | smooth water and clean full from 5. 6 - | g Gloomy. | u Ugly threatening appearance |
| 5 Fresh breeze | Royals, &c. | h Hail. | v of weather |
| 6 Strong breeze | Single reefed topsails, & T.G. sails | i Lightning. | w Visibility, Objects at a distance |
| 7 Moderate gale | Double reefed topsails, jib, &c. | m Misty (hazy). | x unusually visible. |
| 8 Fresh gale | Triple reefed topsails, &c. | n Overcast. | y Dew. |
| 9 Strong gale | Close reefed topsails, &c. | p Passing showers. | |
| 10 Whole gale | With which she could scarcely bear close reefed main-top sail and reefed foresail. | | |
| 11 Storm | Which would reduce her to storm-stay sails. | | |
| 12 Hurricane | Which no canvas could withstand. | | |
- Note.* To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

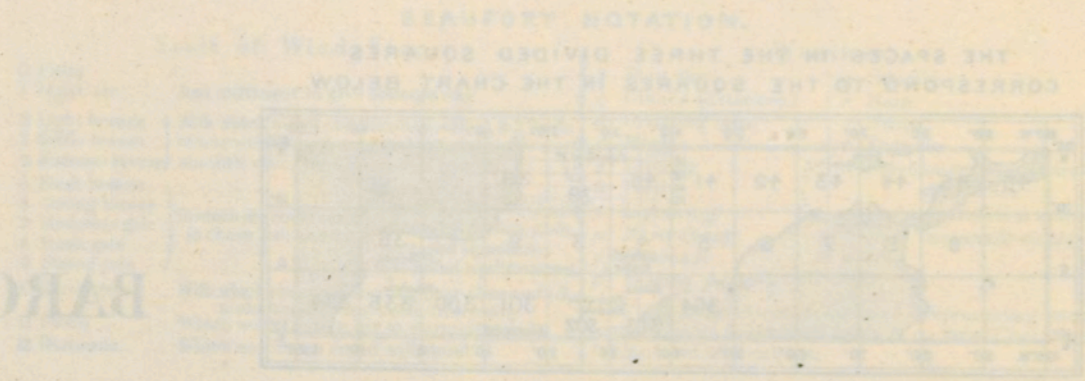
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SQUARES
38, 39, 40.
SEPTEMBER.

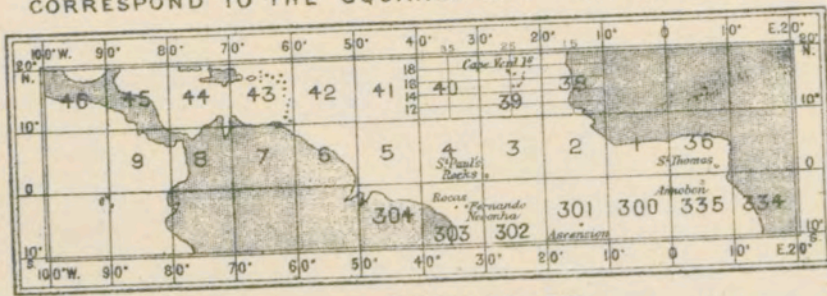


SEPTEMBER.

WINDS, CURRENTS,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

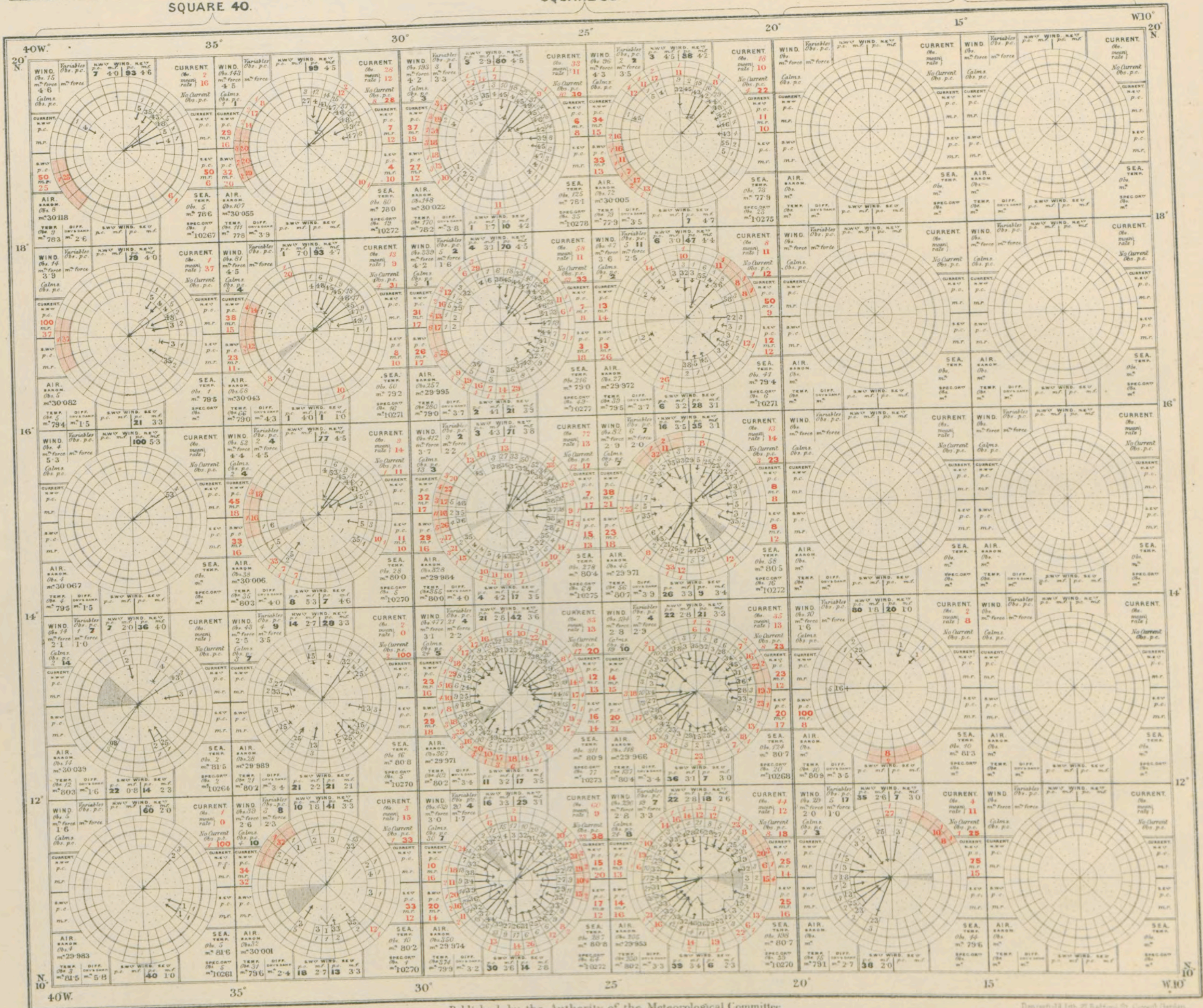


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 40.

SQUARE 39.

SQUARE 38.



SEPTEMBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

0	Calm	Just sufficient to give storage away.	
1	Light air	With which a well conditioned ship 1 to 2 knots	
2	Light breeze	of war, with all sail set, would go in 3 - 4	
3	Gentle breeze	smooth water and clear full in 5 - 6	
4	Moderate breeze		Royals, &c.
5	Fresh breeze	To which she could carry	Single reefed top-sails, jibs, &c.
6	Strong breeze	in chase, full and by	Double reefed top-sails, jibs, &c.
7	Moderate gale		Triple reefed top-sails, &c.
8	Fresh gale		Cross reefed top-sails, &c.
9	Strong gale	With which she could scarcely bear close-reefed	
10	Whole gale	main-top-sail and reefed foresail	
11	Storm	Which would reduce her to storm-stays-sails.	
12	Hurricane	Which no canvas could withstand.	

b	Blue sky.	q	Squally.
c	Clouds (detached).	r	Rain.
d	Drizzling rain.	s	Snow.
f	Foggy.	t	Thunder.
g	Gloomy.	u	Ugly threatening appearance of weather.
h	Hail.	v	Visibility. Objects at a distance unusually visible.
i	Lightning.	w	Dew.
m	Misty (hazy).		
n	Overcast.		
p	Passing showers.		

NOTE To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

SQUARES

38, 39, 40.

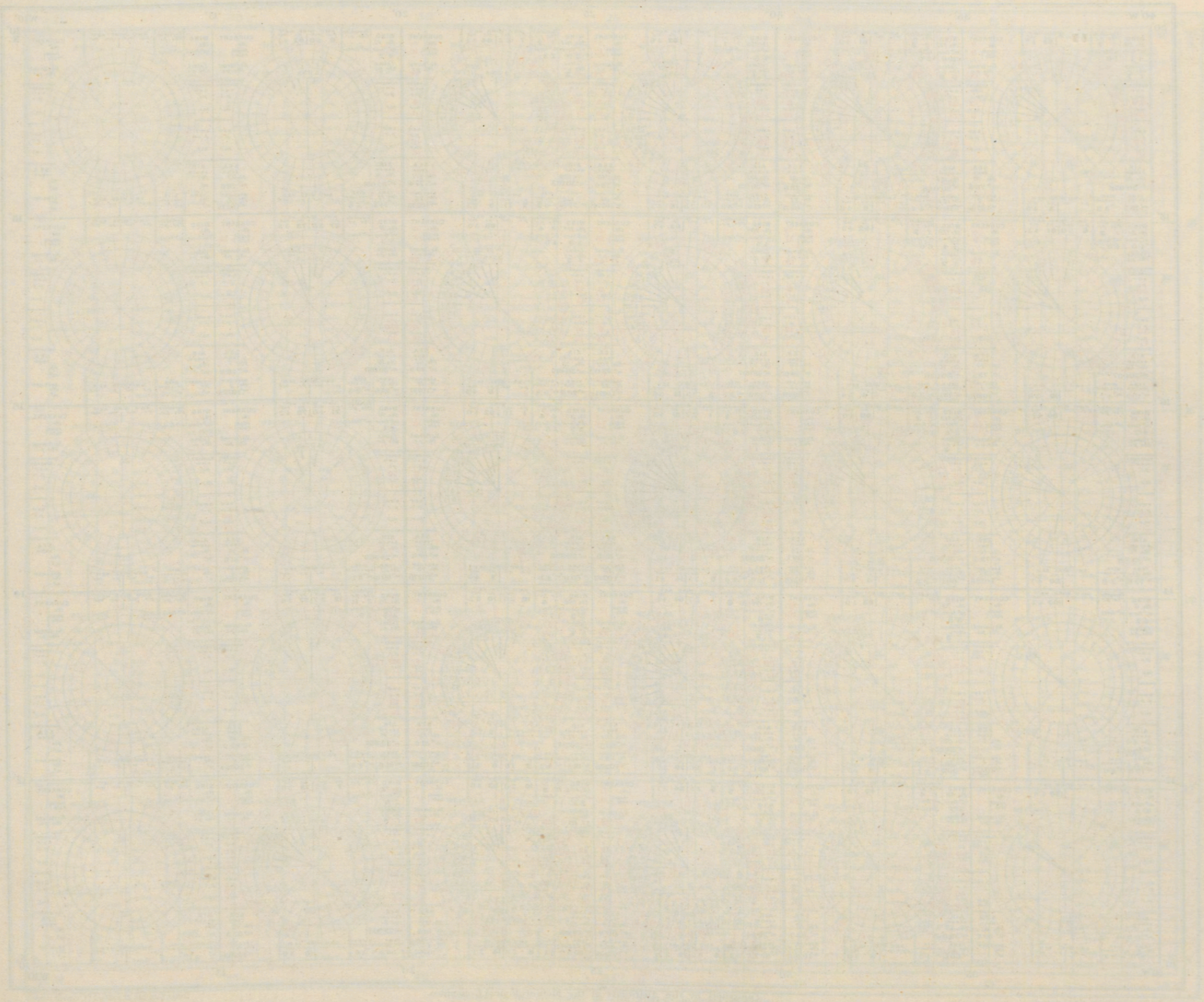
SEPTEMBER.

[illegible]

SQUARES
38, 39, 40.
OCTOBER.

OCTOBER

WINDS, CURRENTS, RAIN, &c.
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

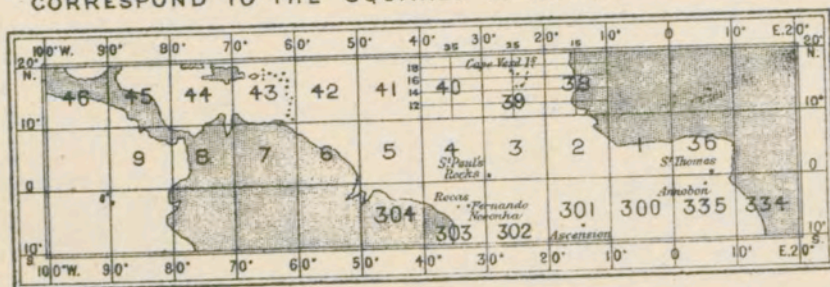


SQUARE 38

SQUARE 39

SQUARE 40

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

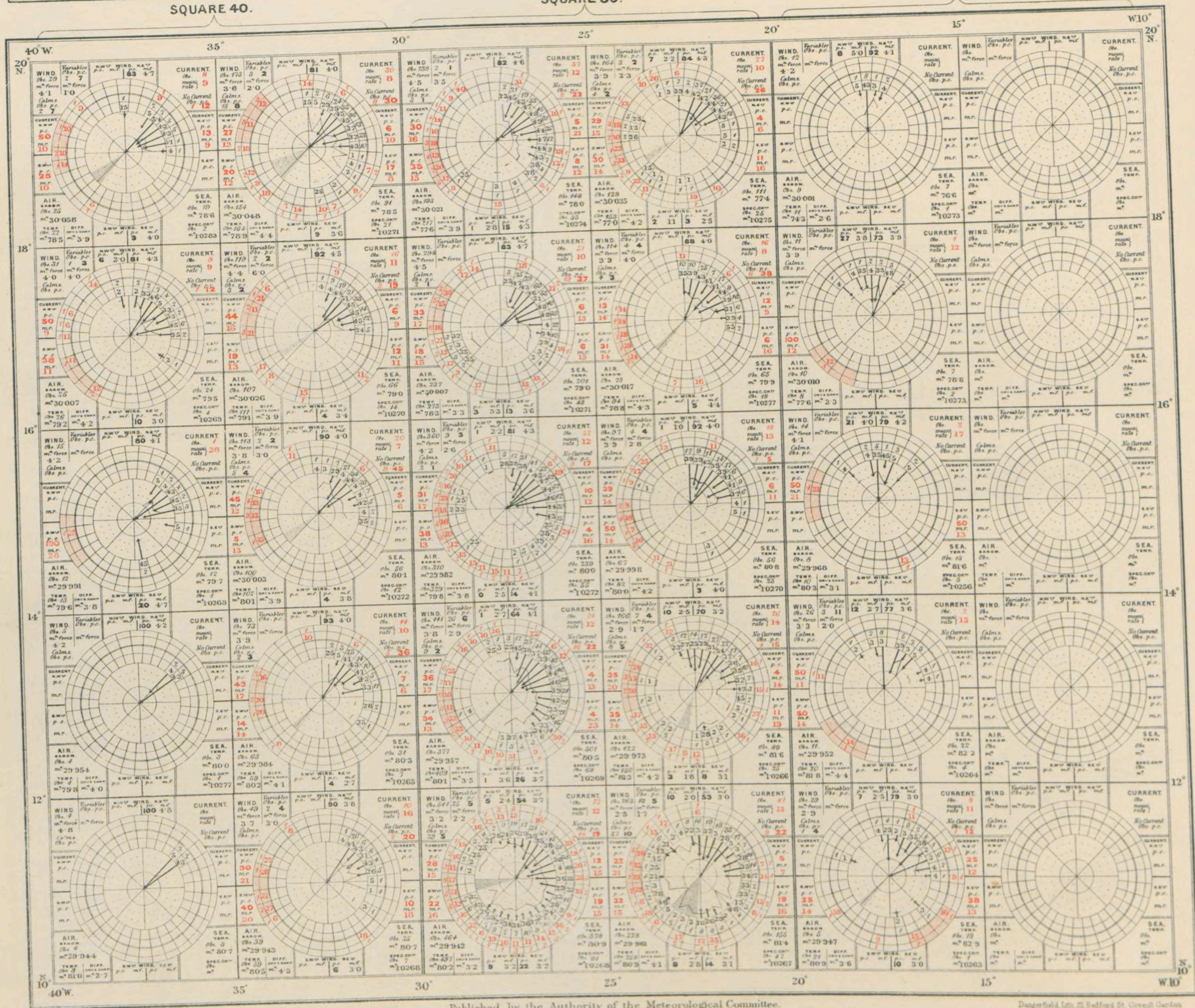


WINDS, CURRENTS,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 40.

SQUARE 39.

SQUARE 38.



OCTOBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

Scale of Wind Force.

BEAUFORT NOTATION.

Weather.

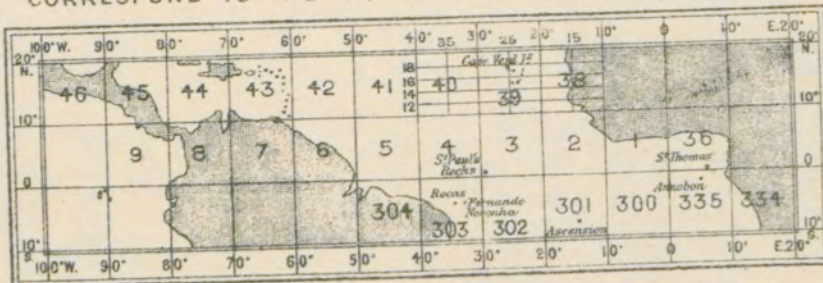
0 Calm		Scale of Wind Force.
1	Light air	Just sufficient to give steerage way.
2	Light breeze	With which a well conditioned ship
3	Gentle breeze	of war, with all sail set, would go in
4	Moderate breeze	smooth water and 'clean full in
5	Fresh breeze	Royals, &c.
6	Strong breeze	Single-reefed topsails, &c.
7	Moderate gale	Double-reefed topsails, jib
8	Fresh gale	Triple-reefed topsails, &c.
9	Strong gale	Close-reefed topsails, &c.
10	Whole gale	With which she could scarcely bear close-reefed main-top-sail and reefed foresail.
11	Storm	Which would reduce her to storm-stay sails.
12	Hurricane	Which no canvas could withstand.

<i>b</i>	Blue sky.	<i>g</i>	Squally.
<i>c</i>	Clouds (detached).	<i>r</i>	Rain.
<i>d</i>	Drizzling rain.	<i>s</i>	Snow.
<i>f</i>	Foggy.	<i>t</i>	Thunder
<i>g</i>	Gloomy.	<i>u</i>	Ugly (threatening) appearance of weather.
<i>h</i>	Hail.	<i>v</i>	Visibility. Objects at a distance unusually visible.
<i>l</i>	Lightning.	<i>w</i>	Dew.
<i>m</i>	Misty (hazy).		
<i>o</i>	Overcast.		
<i>p</i>	Passing showers.		

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

[illegible]

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

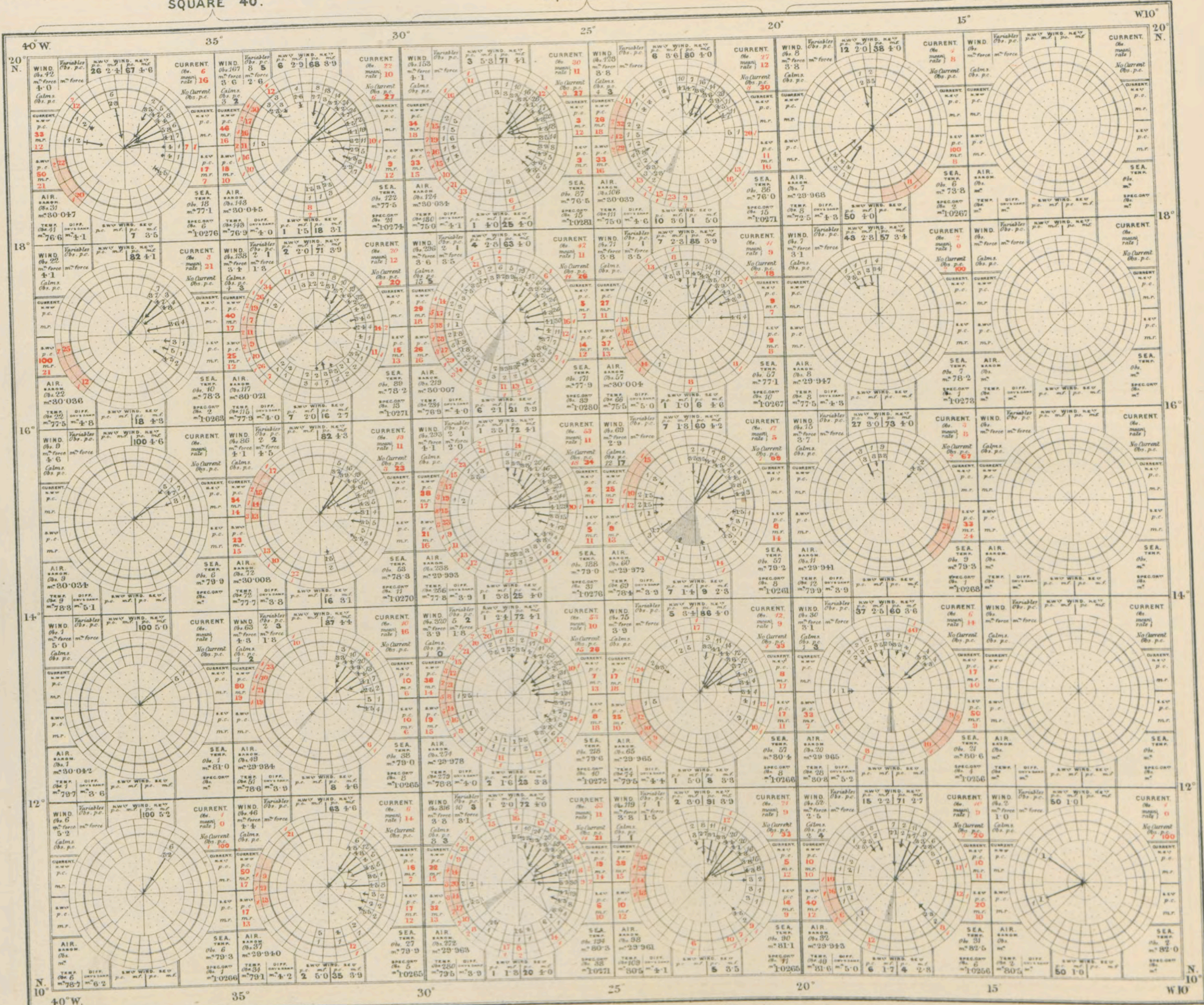


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 40.

SQUARE 39.

SQUARE 38.



NOVEMBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

SQUARE 38.

BEAUFORT NOTATION.
Scale of Wind Force.

Weather.

0	Calm	Just sufficient to give steerage way.	
1	Light air		
2	Light breeze	With which a well conditioned ship	1 to 2 knots
3	Gentle breeze	of-war with all sail set, would go in	3 . 4 .
4	Moderate breeze	smooth water and clean full from	5 . 6 .
5	Fresh breeze		Rouals, &c.
6	Strong breeze	To which she could carry in chase; full and by	Single reefed topsails, &c. Gaisals
7	Moderate gale		Double reefed topsails, rib, &c.
8	Fresh gale		Triple reefed topsails, &c.
9	Strong gale		Close reefed topsails, &c. comes
10	Whole gale	With which she could scarcely bear close reefed in a top-sail and reefed foresail.	
11	Storm	Which would reduce her to storm-stay-sails.	
12	Hurricane	Which no canvas could withstand.	

<i>b</i>	Blue sky.	<i>g</i>	Squally.
<i>c</i>	Clouds (detached).	<i>r</i>	Rain.
<i>d</i>	Drizzling rain.	<i>s</i>	Snow.
<i>f</i>	Foggy.	<i>t</i>	Thunder.
<i>g</i>	Gloomy.	<i>u</i>	Ugly threatening appearance
<i>h</i>	Hail.		of weather.
<i>l</i>	Lightning.	<i>v</i>	Visibility. Objects at a distance
<i>m</i>	Misty (hazy).		unusually visible.
<i>o</i>	Overcast.	<i>w</i>	Dew.
<i>p</i>	Passing showers.		

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

SQUARES
38, 39, 40.
NOVEMBER.

[illegible]

SQUARES
38, 39, 40.
DECEMBER.

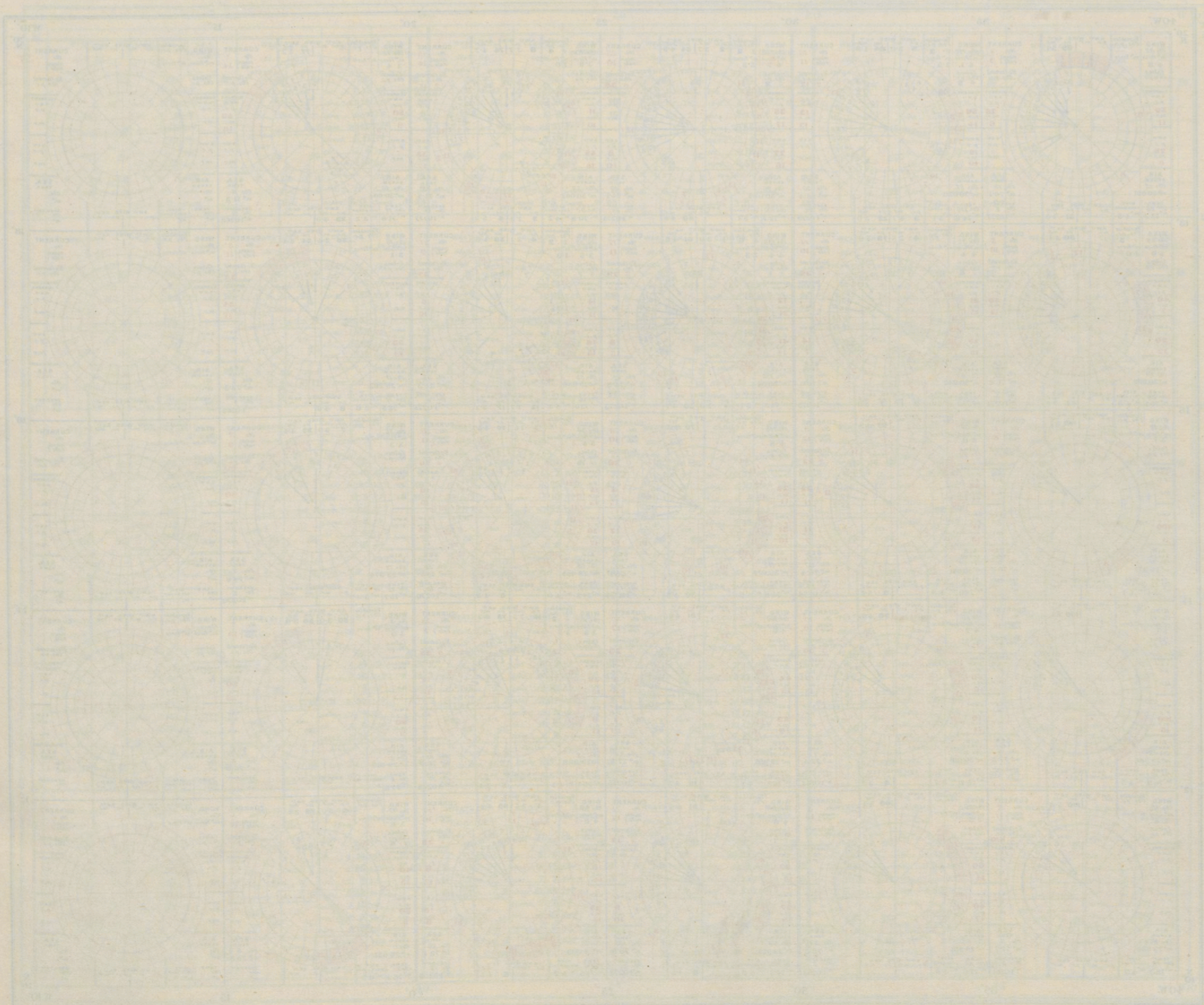
DECEMBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

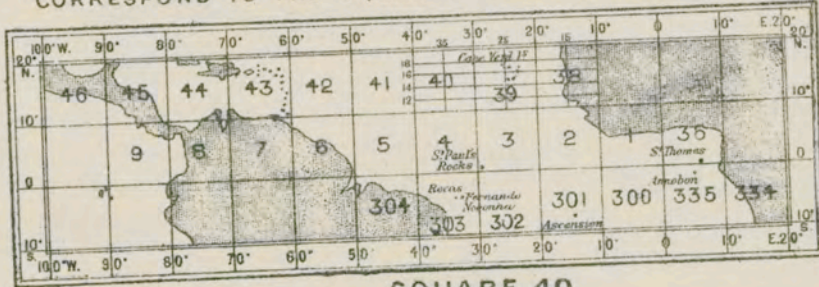
SQUARE 38

SQUARE 39

SQUARE 40



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

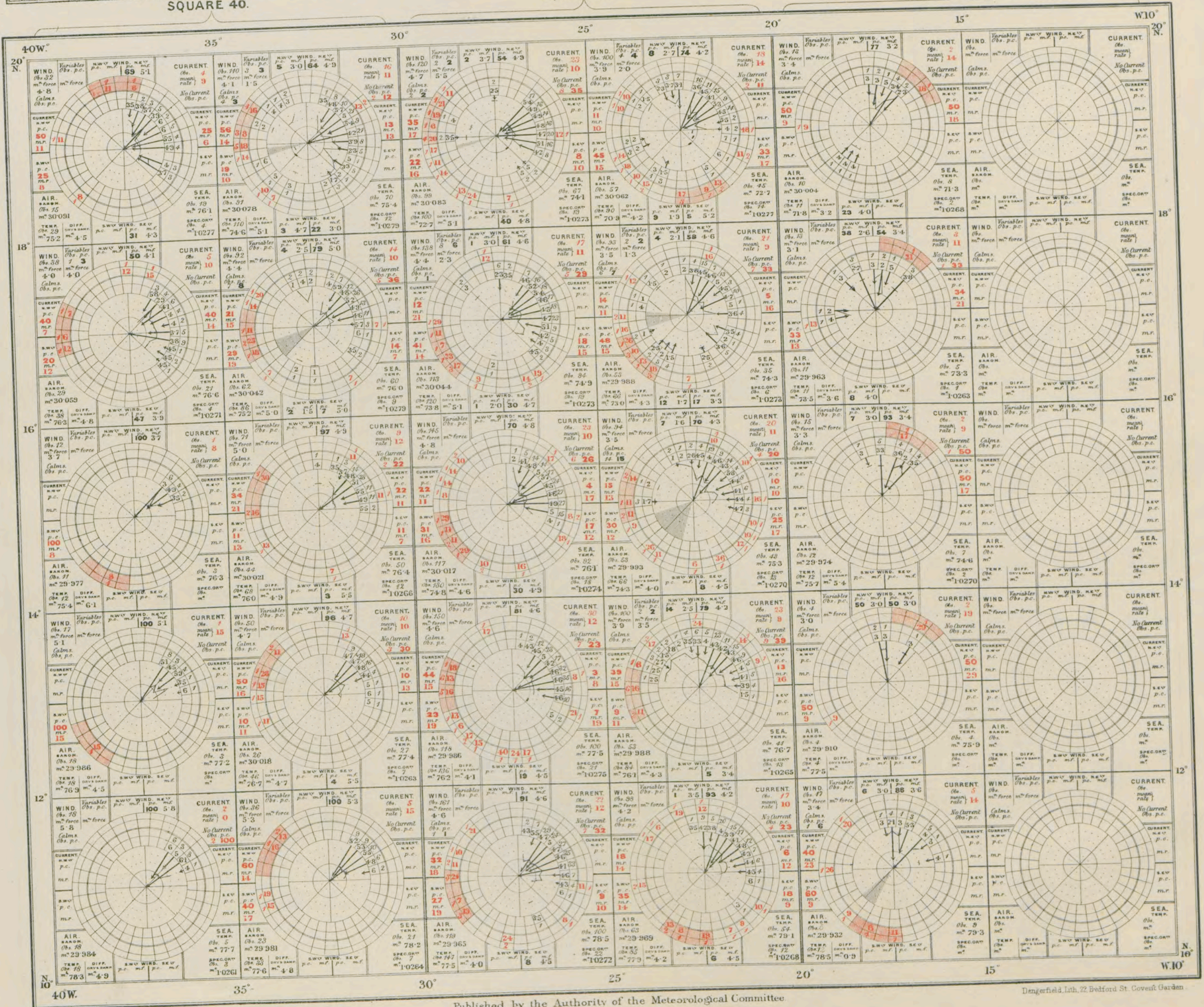


SQUARE 40.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 39.

SQUARE 38.



DECEMBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 40.

SQUARE 39.

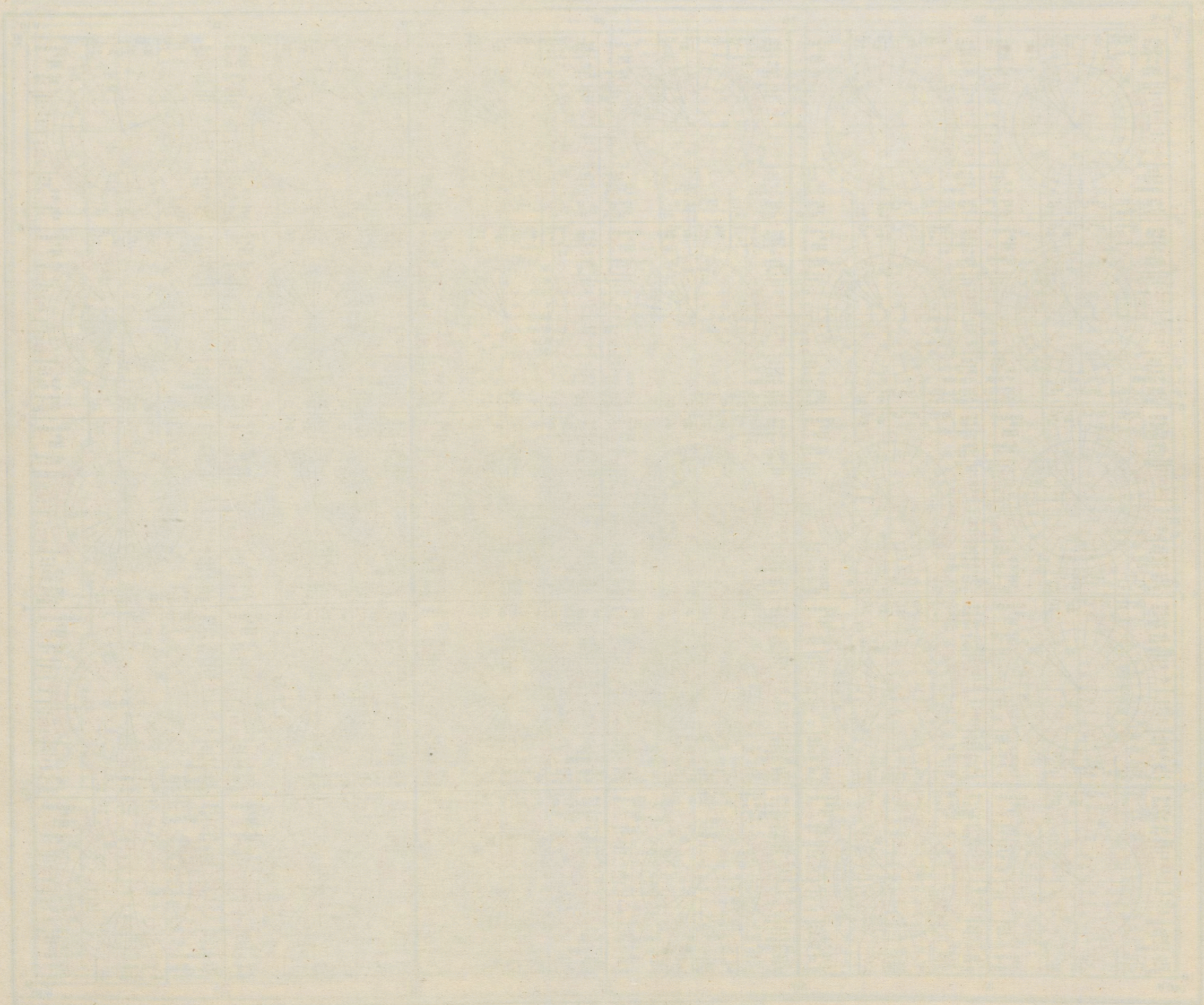
SQUARE 38.

40° W.			35°			30°			25°			20°			15°			10° W.		
20° N.																		20° N.		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. No. 27.			Obs. No. 16.			Obs. No. 3.			Obs. No. 60.			Obs. No. 57.			Obs. No. 34.			Obs. No. 81.		
STORMY.			FORM.			FORM.			STORMY.			FORM.			FORM.			STORMY.		
b. 15.			cir. 2 13 NE 1 33			cir. 7 12 NE 10 29			b. 47.			cir. 6 9 NE 2 10			cir. 14 21 NE 4 20			b. 47.		
l. 16.			cir. 2 13 NE 2 67			cir. 13 23 NE 5 15			l. 60.			cir. 14 21 NE 4 20			cir. 14 21 NE 4 20			l. 60.		
g. 7 1 25			cir. 1 6 E 1 3			cir. 7 12 NE 10 29			g. 4 3			cir. 6 9 NE 2 10			cir. 6 9 NE 2 10			g. 4 3		
u. 3 9			cum. 10 63 SE 1 3			cum. 26 46 SE 1 3			u. 3 9			cum. 41 61 SE 1 3			cum. 41 61 SE 1 3			u. 3 9		
w. 3 9			cum. 3 19 S 1 3			cum. 6 11 S 1 3			w. 3 9			cum. 2 3 S 1 3			cum. 2 3 S 1 3			w. 3 9		
h. 3 9			str. 2 13 W 1 3			str. 2 4 SW 1 3			h. 3 9			str. 2 4 SW 1 3			str. 2 4 SW 1 3			h. 3 9		
r. 3 9			amt. 2 13 W 1 3			amt. 2 4 SW 1 3			r. 3 9			amt. 2 4 SW 1 3			amt. 2 4 SW 1 3			r. 3 9		
p. 3 9			Obs. No. 20.			Obs. No. 14.			p. 3 9			Obs. No. 14.			Obs. No. 14.			p. 3 9		
d. 3 9			mean 5.9			mean 5.0			d. 3 9			mean 5.3			mean 5.3			d. 3 9		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. No. 28.			Obs. No. 22.			Obs. No. 7.			Obs. No. 87.			Obs. No. 83.			Obs. No. 79.			Obs. No. 11.		
STORMY.			FORM.			FORM.			STORMY.			FORM.			FORM.			STORMY.		
b. 22.			cir. 6 27 NE 2 29			cir. 3 6 NE 5 17			b. 46.			cir. 11 13 NE 17 58			cir. 11 13 NE 17 58			b. 46.		
l. 23.			cir. 6 23 NE 2 29			cir. 10 20 NE 10 33			l. 51.			cir. 15 18 NE 17 58			cir. 15 18 NE 17 58			l. 51.		
g. 4 3			cir. 16 20 E 7			cir. 16 20 E 7			g. 4 3			cir. 16 20 E 7			cir. 16 20 E 7			g. 4 3		
u. 3 9			cum. 16 68 SE 1 3			cum. 15 35 SE 1 3			u. 3 9			cum. 53 64 SE 1 3			cum. 53 64 SE 1 3			u. 3 9		
w. 3 9			cum. 5 23 S 1 3			cum. 12 24 S 1 3			w. 3 9			cum. 1 1 S 1 3			cum. 1 1 S 1 3			w. 3 9		
h. 3 9			str. 2 9 SW 1 3			str. 2 5 SW 1 3			h. 3 9			str. 6 7 SW 1 3			str. 6 7 SW 1 3			h. 3 9		
r. 3 9			amt. 2 9 SW 1 3			amt. 2 5 SW 1 3			r. 3 9			amt. 2 5 SW 1 3			amt. 2 5 SW 1 3			r. 3 9		
p. 3 9			Obs. No. 26.			Obs. No. 10.			p. 3 9			Obs. No. 10.			Obs. No. 10.			p. 3 9		
d. 3 9			mean 4.7			mean 4.7			d. 3 9			mean 5.1			mean 5.1			d. 3 9		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. No. 8.			Obs. No. 9.			Obs. No. 3.			Obs. No. 101.			Obs. No. 82.			Obs. No. 31.			Obs. No. 12.		
STORMY.			FORM.			FORM.			STORMY.			FORM.			FORM.			STORMY.		
b. 8.			cir. 3 33 NE 2 67			cir. 1 10 NE 2 9			b. 50.			cir. 6 7 NE 2 7			cir. 6 7 NE 2 7			b. 11.		
l. 6.			cir. 4 44 NE 2 67			cir. 16 40 NE 10 48			l. 67.			cir. 18 22 NE 13 42			cir. 18 22 NE 13 42			l. 12.		
g. 4 3			cir. 1 11 E 1 3			cir. 2 5 E 2 10			g. 4 3			cir. 8 10 E 2 6			cir. 8 10 E 2 6			g. 4 3		
u. 3 9			cum. 5 56 SE 1 3			cum. 15 38 SE 1 3			u. 3 9			cum. 47 57 SE 1 3			cum. 47 57 SE 1 3			u. 3 9		
w. 3 9			cum. 1 11 S 1 3			cum. 3 8 S 1 3			w. 3 9			cum. 4 5 S 1 3			cum. 4 5 S 1 3			w. 3 9		
h. 3 9			str. 4 44 SW 1 3			str. 2 5 SW 1 3			h. 3 9			str. 6 7 SW 1 3			str. 6 7 SW 1 3			h. 3 9		
r. 3 9			amt. 4 44 SW 1 3			amt. 2 5 SW 1 3			r. 3 9			amt. 2 5 SW 1 3			amt. 2 5 SW 1 3			r. 3 9		
p. 3 9			Obs. No. 7.			Obs. No. 13.			p. 3 9			Obs. No. 13.			Obs. No. 13.			p. 3 9		
d. 3 9			mean 1.4			mean 4.8			d. 3 9			mean 5.4			mean 5.4			d. 3 9		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. No. 9.			Obs. No. 12.			Obs. No. 6.			Obs. No. 104.			Obs. No. 85.			Obs. No. 40.			Obs. No. 4.		
STORMY.			FORM.			FORM.			STORMY.			FORM.			FORM.			STORMY.		
b. 7.			cir. 2 17 NE 2 33			cir. 5 19 NE 3 43			b. 52.			cir. 8 9 NE 4 10			cir. 8 9 NE 4 10			b. 4.		
l. 9.			cir. 3 25 NE 2 33			cir. 7 26 NE 1 15			l. 64.			cir. 11 13 NE 15 37								

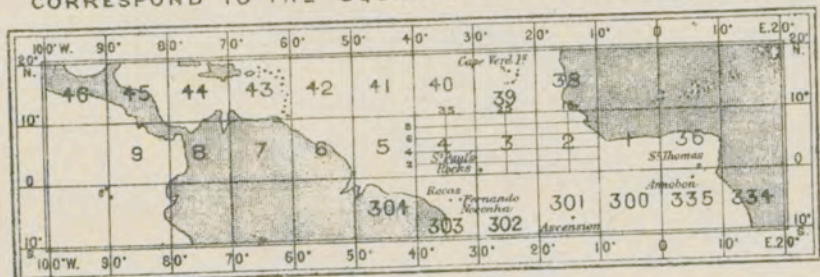
SQUARES

2, 3, 4.

JANUARY.



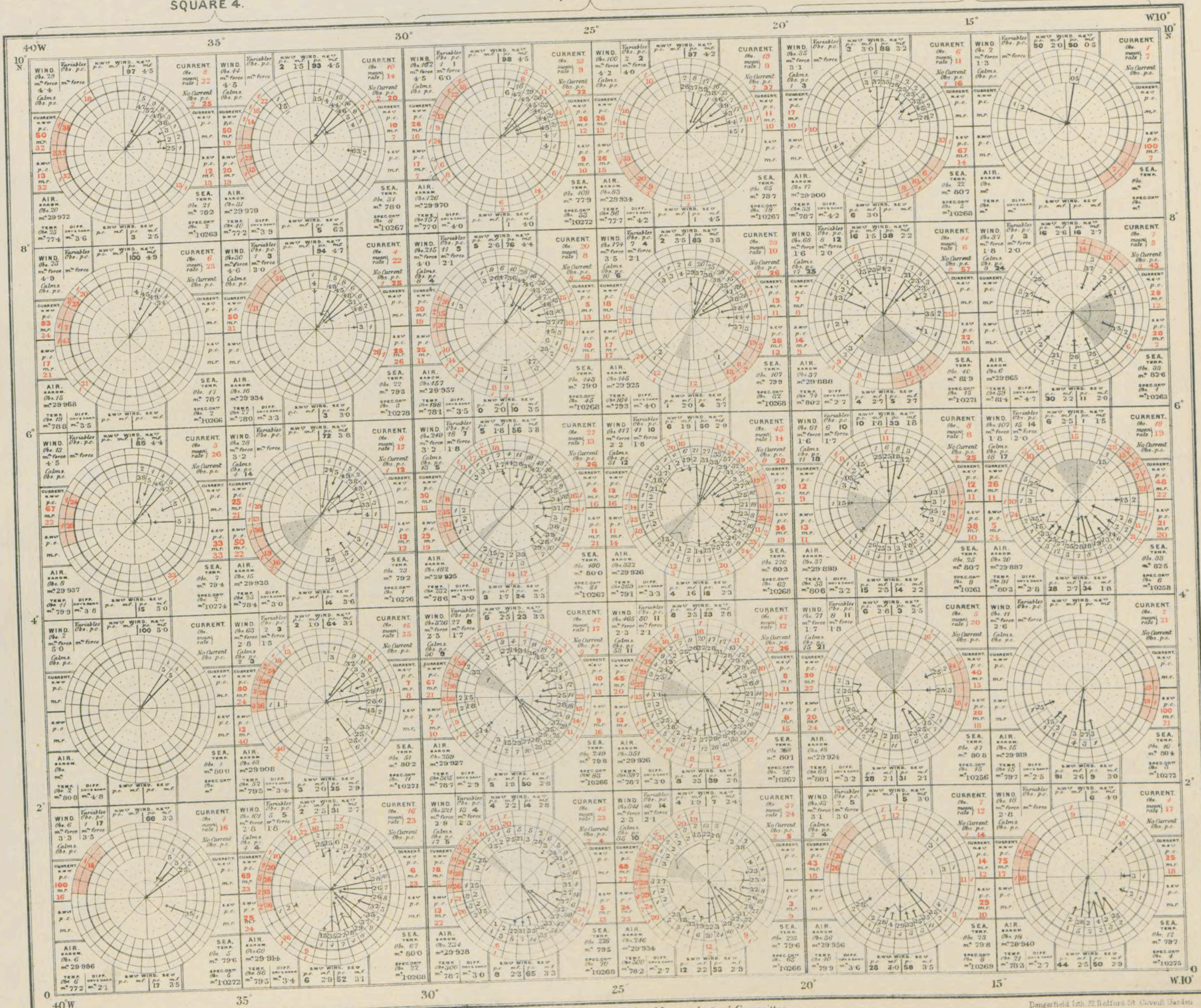
THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 3.

SQUARE 2.



JANUARY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2:

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

Scale of Wind Force.	
0 Calm	
1 Light air	Just sufficient to give stowage way.
2 Light breeze	} With which a well conditioned ship will 1 to 2 knots of war with all sail set would go in 3 4 smooth water and clean full from 5 6
3 Gentle breeze	
4 Moderate breeze	
5 Fresh breeze	Royals, &c.
6 Strong breeze	Single reefed topsail & Gull.
7 Moderate gale	Double reefed topsails, rib- bands, &c.
8 Fresh gale	Triple reefed topsails, &c.
9 Strong gale	Close reefed topsail & courses.
10 Whole gale	With which she could scarcely bear close reefed main-top-sail and reefed foresail.
11 Storm	Which would reduce her to storm-slay sails.
12 Hurricane	Which no canvas could withstand.

b	Blue sky.	q	Squally.
c	Clouds (detached).	r	Rain.
d	Drizzling rain.	s	Snow.
f	Foggy.	t	Thunder.
g	Gloomy.	u	Ugly (threatening appearance of weather.
h	Hail.	v	Visibility. Objects at a distance unusually visible.
i	Lightning.	w	Dew.
m	Misty (hazy).		
n	Overcast.		
p	Passing showers.		

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

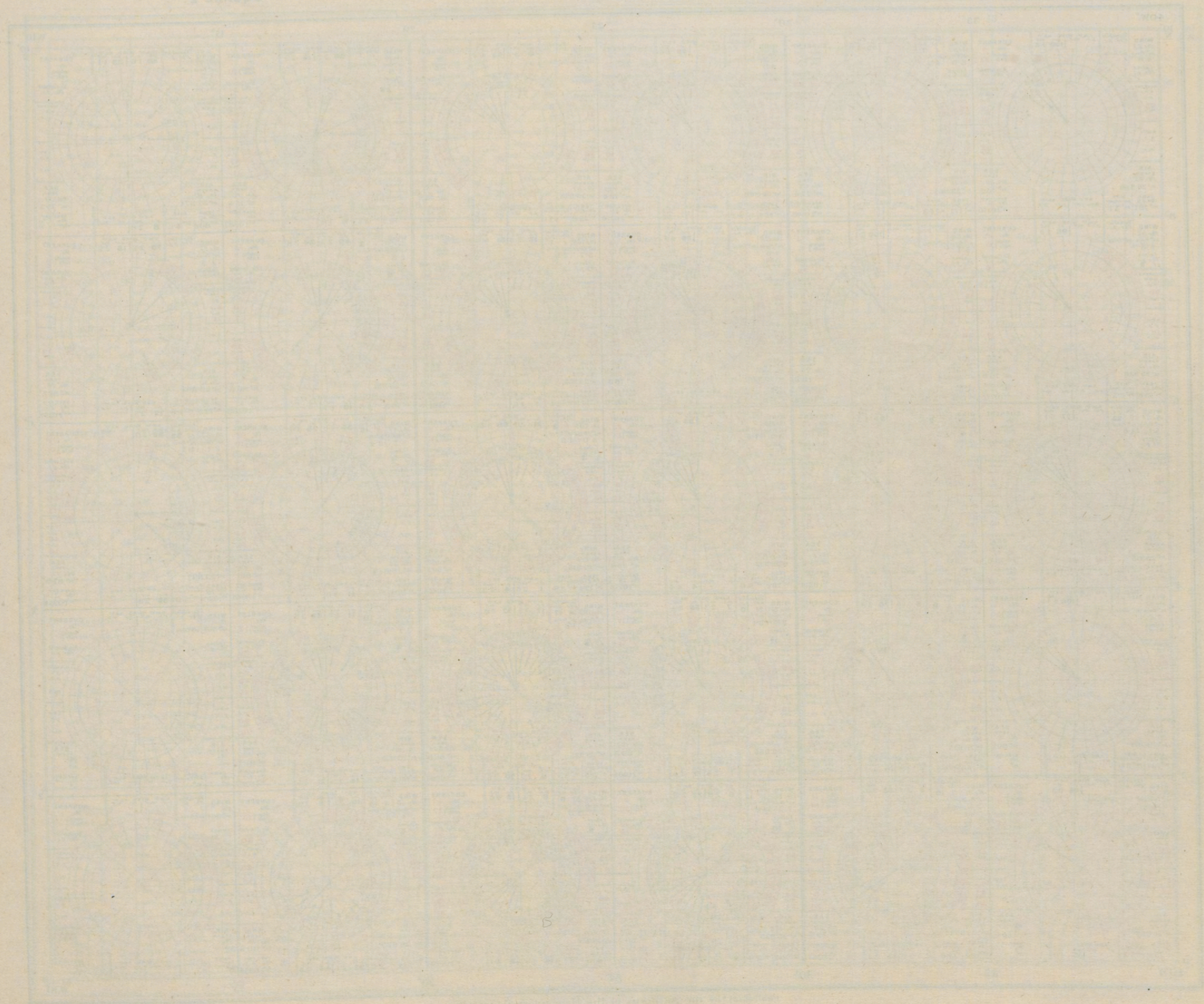
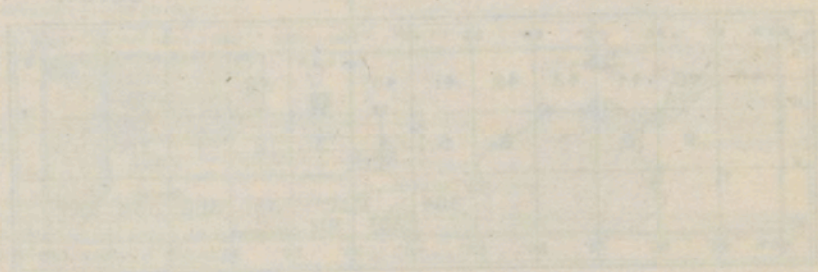
SQUARES
2, 3, 4.
JANUARY.

40°W.	35°	30°	25°	20°	15°	10°W.
10°N.						10°N.
8°						8°
6°						6°
4°						4°
2°						2°
0°						0°
40°W.	35°	30°	25°	20°	15°	10°W.

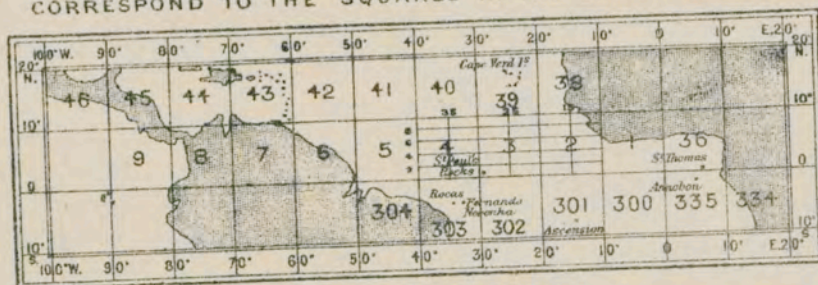
SQUARES
2, 3, 4.
FEBRUARY.

LIBRARY

WEATHER, WINDS, CURRENTS, & GRAVITY
BAROMETER, TEMPERATURE, & GRAVITY



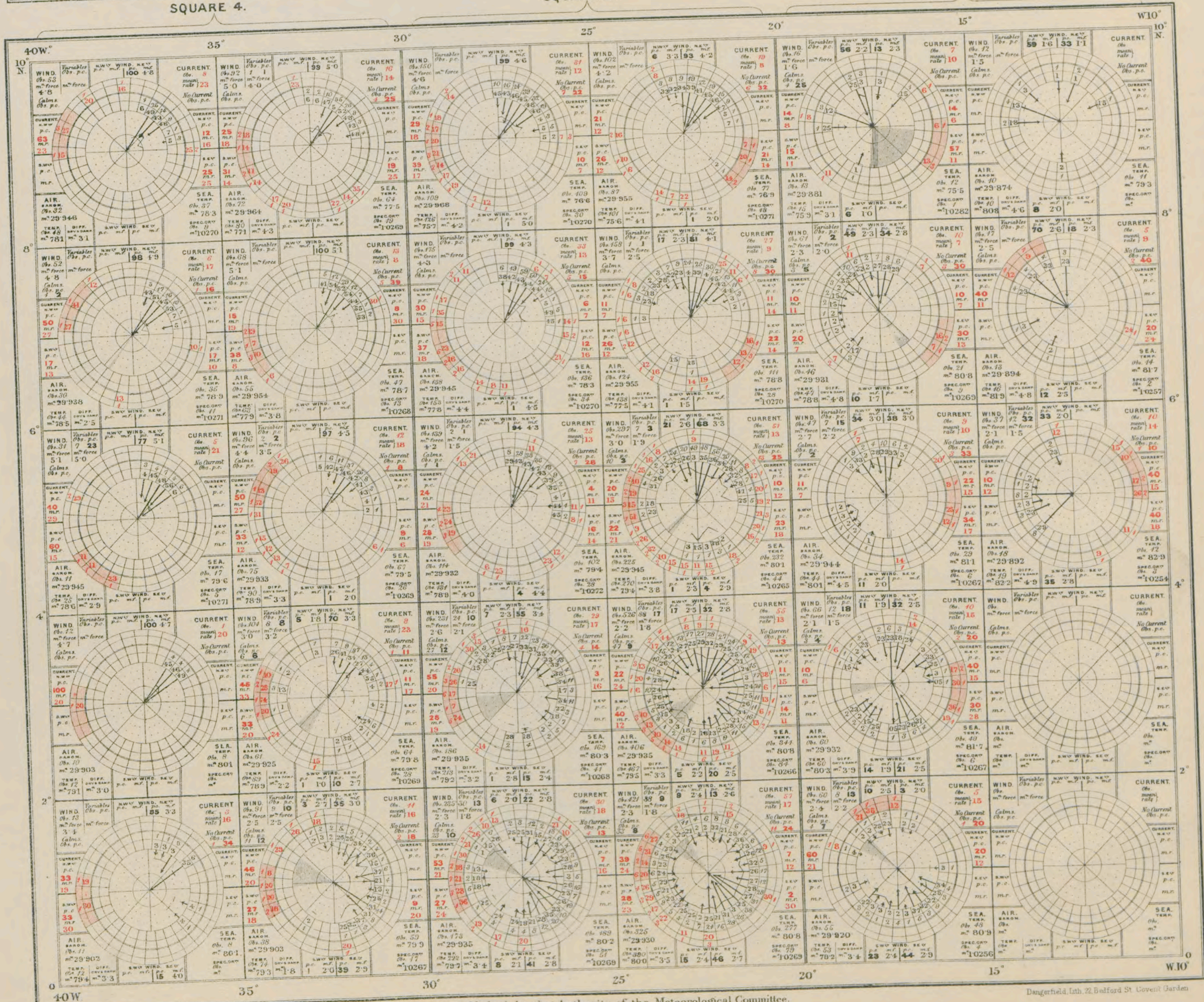
THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 3.

SQUARE 2.



FEBRUARY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

0 Calm		Scale of Wind Force.
1 Light air	Just sufficient to give stowage way.	
2 Light breeze	{ With which a well conditioned ship-of-war, with all sail set, would go down smooth water and clean full, from	
3 Gentle breeze		
4 Moderate breeze		
5 Fresh breeze		Royals &c.
6 Strong breeze	{ To which she could carry, double reefed to in chase, full and by.	Single reefed to
7 Moderate gale		
8 Fresh gale		Double reefed to
9 Strong gale		Close reefed by
10 Whole gale	With which she could scarcely bear a main-top-sail and reefed fore.	
11 Storm	Which would reduce her to storm-sail.	
12 Hurricane	Which no canvas could withstand.	

b	Blue sky.	g	Squally.
c	Clouds (detached).	r	Rain.
d	Drizzling rain.	s	Snow.
f	Foggy.	t	Thunder.
g	Gloomy.	u	Ugly (threatening appearance of weather).
h	Hail.	v	Visibility. Objects at a distance unusually visible.
l	Lightning.	w	Dew.
m	Misty (hazy).		
o	Overcast.		
p	Passing showers.		

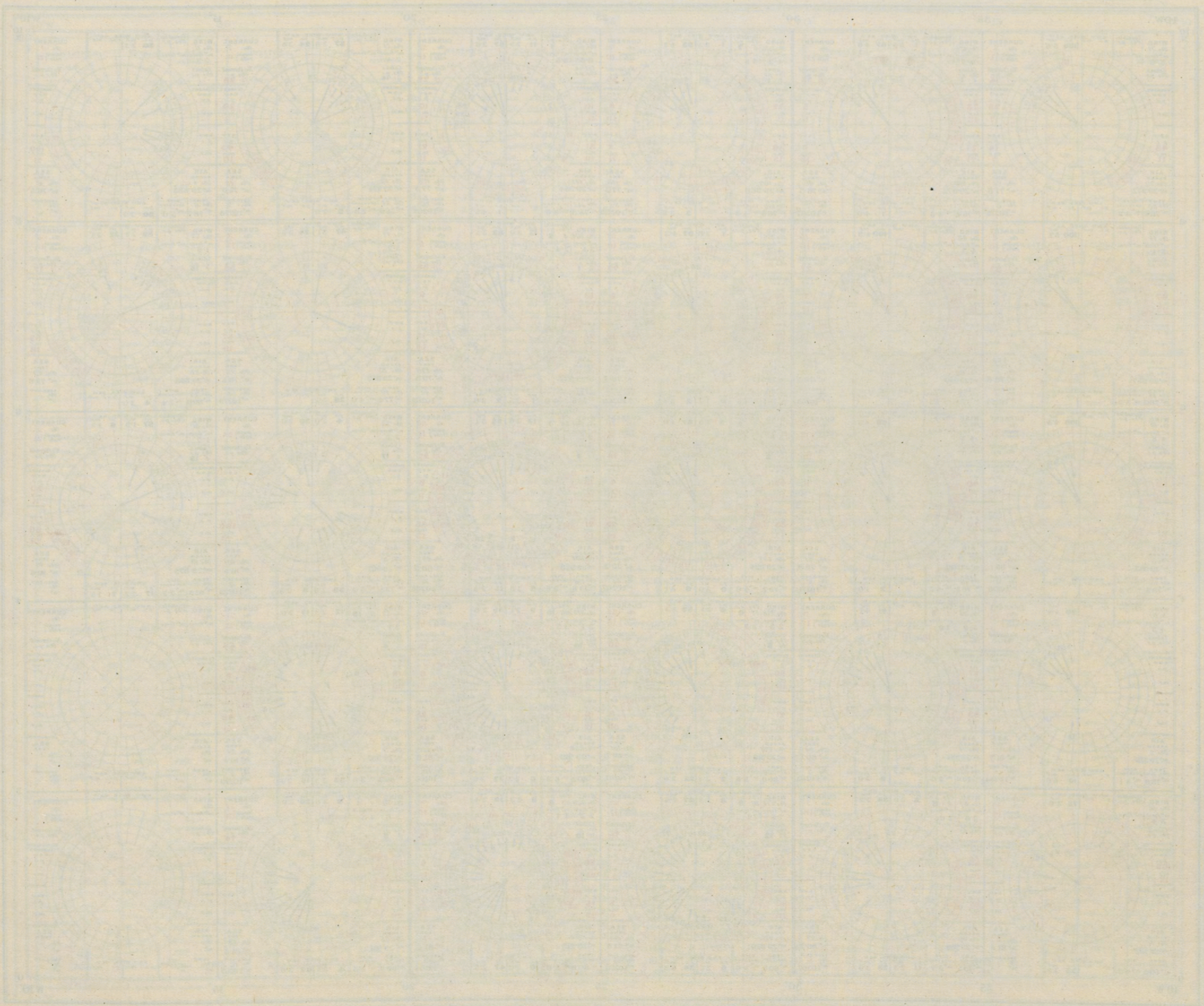
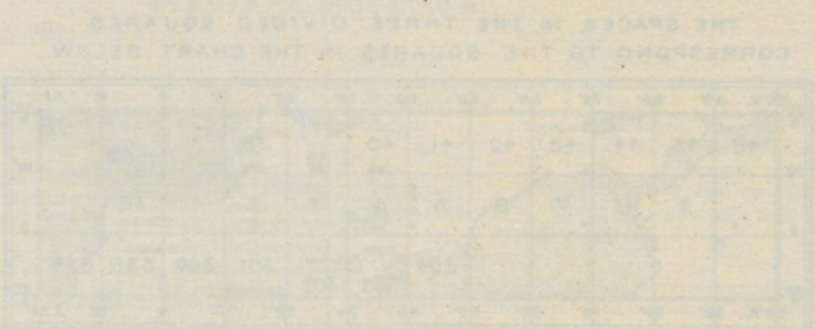
SQUARES
2, 3, 4.
FEBRUARY.

40°W.	35°	30°	25°	20°	15°	10°W.											
10°N.						10°N.											
WEATHER. Obo 46	CLOUDS. Obo 31	SEA OR SWELL. Obo 11	WEATHER. Obo 54	CLOUDS. Obo 43	SEA OR SWELL. Obo 24	WEATHER. Obo 94	CLOUDS. Obo 84	SEA OR SWELL. Obo 33	WEATHER. Obo 79	CLOUDS. Obo 50	SEA OR SWELL. Obo 20	WEATHER. Obo 8	CLOUDS. Obo 25	SEA OR SWELL. Obo 1	WEATHER. Obo 3	CLOUDS. Obo 2	SEA OR SWELL. Obo 100
STORMY. SKY. Obo 46	STORMY. SKY. Obo 31	STORMY. SKY. Obo 11	STORMY. SKY. Obo 54	STORMY. SKY. Obo 43	STORMY. SKY. Obo 24	STORMY. SKY. Obo 94	STORMY. SKY. Obo 84	STORMY. SKY. Obo 33	STORMY. SKY. Obo 79	STORMY. SKY. Obo 50	STORMY. SKY. Obo 20	STORMY. SKY. Obo 8	STORMY. SKY. Obo 25	STORMY. SKY. Obo 1	STORMY. SKY. Obo 3	STORMY. SKY. Obo 2	STORMY. SKY. Obo 100
h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24
l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3	l. 1. 3
g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9	g. 5. 9
u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4
WET. AIR. Obo 46	WET. AIR. Obo 31	WET. AIR. Obo 11	WET. AIR. Obo 54	WET. AIR. Obo 43	WET. AIR. Obo 24	WET. AIR. Obo 94	WET. AIR. Obo 84	WET. AIR. Obo 33	WET. AIR. Obo 79	WET. AIR. Obo 50	WET. AIR. Obo 20	WET. AIR. Obo 8	WET. AIR. Obo 25	WET. AIR. Obo 1	WET. AIR. Obo 3	WET. AIR. Obo 2	WET. AIR. Obo 100
h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1
p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11
d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1
WEATHER. Obo 43	CLOUDS. Obo 35	SEA OR SWELL. Obo 6	WEATHER. Obo 43	CLOUDS. Obo 31	SEA OR SWELL. Obo 12	WEATHER. Obo 113	CLOUDS. Obo 89	SEA OR SWELL. Obo 43	WEATHER. Obo 107	CLOUDS. Obo 85	SEA OR SWELL. Obo 31	WEATHER. Obo 35	CLOUDS. Obo 25	SEA OR SWELL. Obo 14	WEATHER. Obo 10	CLOUDS. Obo 7	SEA OR SWELL. Obo 4
STORMY. SKY. Obo 43	STORMY. SKY. Obo 35	STORMY. SKY. Obo 6	STORMY. SKY. Obo 43	STORMY. SKY. Obo 31	STORMY. SKY. Obo 12	STORMY. SKY. Obo 113	STORMY. SKY. Obo 89	STORMY. SKY. Obo 43	STORMY. SKY. Obo 107	STORMY. SKY. Obo 85	STORMY. SKY. Obo 31	STORMY. SKY. Obo 35	STORMY. SKY. Obo 25	STORMY. SKY. Obo 14	STORMY. SKY. Obo 10	STORMY. SKY. Obo 7	STORMY. SKY. Obo 4
h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24
l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4	l. 2. 4
g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8	g. 4. 8
u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4
WET. AIR. Obo 43	WET. AIR. Obo 35	WET. AIR. Obo 6	WET. AIR. Obo 43	WET. AIR. Obo 31	WET. AIR. Obo 12	WET. AIR. Obo 113	WET. AIR. Obo 89	WET. AIR. Obo 43	WET. AIR. Obo 107	WET. AIR. Obo 85	WET. AIR. Obo 31	WET. AIR. Obo 35	WET. AIR. Obo 25	WET. AIR. Obo 14	WET. AIR. Obo 10	WET. AIR. Obo 7	WET. AIR. Obo 4
h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1
p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11
d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1
WEATHER. Obo 24	CLOUDS. Obo 20	SEA OR SWELL. Obo 7	WEATHER. Obo 72	CLOUDS. Obo 62	SEA OR SWELL. Obo 21	WEATHER. Obo 35	CLOUDS. Obo 15	SEA OR SWELL. Obo 32	WEATHER. Obo 219	CLOUDS. Obo 180	SEA OR SWELL. Obo 59	WEATHER. Obo 15	CLOUDS. Obo 26	SEA OR SWELL. Obo 6	WEATHER. Obo 33	CLOUDS. Obo 6	SEA OR SWELL. Obo 2
STORMY. SKY. Obo 24	STORMY. SKY. Obo 20	STORMY. SKY. Obo 7	STORMY. SKY. Obo 72	STORMY. SKY. Obo 62	STORMY. SKY. Obo 21	STORMY. SKY. Obo 35	STORMY. SKY. Obo 15	STORMY. SKY. Obo 32	STORMY. SKY. Obo 219	STORMY. SKY. Obo 180	STORMY. SKY. Obo 59	STORMY. SKY. Obo 15	STORMY. SKY. Obo 26	STORMY. SKY. Obo 6	STORMY. SKY. Obo 33	STORMY. SKY. Obo 6	STORMY. SKY. Obo 2
h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24
l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3	l. 3. 3
g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9	g. 9. 9
u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4	u. 2. 4
WET. AIR. Obo 24	WET. AIR. Obo 20	WET. AIR. Obo 7	WET. AIR. Obo 72	WET. AIR. Obo 62	WET. AIR. Obo 21	WET. AIR. Obo 35	WET. AIR. Obo 15	WET. AIR. Obo 32	WET. AIR. Obo 219	WET. AIR. Obo 180	WET. AIR. Obo 59	WET. AIR. Obo 15	WET. AIR. Obo 26	WET. AIR. Obo 6	WET. AIR. Obo 33	WET. AIR. Obo 6	WET. AIR. Obo 2
h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1
p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11	p. 6. 11
d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1
WEATHER. Obo 7	CLOUDS. Obo 11	SEA OR SWELL. Obo 2	WEATHER. Obo 91	CLOUDS. Obo 68	SEA OR SWELL. Obo 18	WEATHER. Obo 116	CLOUDS. Obo 110	SEA OR SWELL. Obo 46	WEATHER. Obo 407	CLOUDS. Obo 285	SEA OR SWELL. Obo 118	WEATHER. Obo 36	CLOUDS. Obo 37	SEA OR SWELL. Obo 9	WEATHER. Obo 37	CLOUDS. Obo 37	SEA OR SWELL. Obo 9
STORMY. SKY. Obo 7	STORMY. SKY. Obo 11	STORMY. SKY. Obo 2	STORMY. SKY. Obo 91	STORMY. SKY. Obo 68	STORMY. SKY. Obo 18	STORMY. SKY. Obo 116	STORMY. SKY. Obo 110	STORMY. SKY. Obo 46	STORMY. SKY. Obo 407	STORMY. SKY. Obo 285	STORMY. SKY. Obo 118	STORMY. SKY. Obo 36	STORMY. SKY. Obo 37	STORMY. SKY. Obo 9	STORMY. SKY. Obo 37	STORMY. SKY. Obo 37	STORMY. SKY. Obo 9
h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24
l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5
g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15
u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1
WET. AIR. Obo 7	WET. AIR. Obo 11	WET. AIR. Obo 2	WET. AIR. Obo 91	WET. AIR. Obo 68	WET. AIR. Obo 18	WET. AIR. Obo 116	WET. AIR. Obo 110	WET. AIR. Obo 46	WET. AIR. Obo 407	WET. AIR. Obo 285	WET. AIR. Obo 118	WET. AIR. Obo 36	WET. AIR. Obo 37	WET. AIR. Obo 9	WET. AIR. Obo 37	WET. AIR. Obo 37	WET. AIR. Obo 9
h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1
p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3
d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1
WEATHER. Obo 7	CLOUDS. Obo 11	SEA OR SWELL. Obo 2	WEATHER. Obo 91	CLOUDS. Obo 68	SEA OR SWELL. Obo 18	WEATHER. Obo 116	CLOUDS. Obo 110	SEA OR SWELL. Obo 46	WEATHER. Obo 407	CLOUDS. Obo 285	SEA OR SWELL. Obo 118	WEATHER. Obo 36	CLOUDS. Obo 37	SEA OR SWELL. Obo 9	WEATHER. Obo 37	CLOUDS. Obo 37	SEA OR SWELL. Obo 9
STORMY. SKY. Obo 7	STORMY. SKY. Obo 11	STORMY. SKY. Obo 2	STORMY. SKY. Obo 91	STORMY. SKY. Obo 68	STORMY. SKY. Obo 18	STORMY. SKY. Obo 116	STORMY. SKY. Obo 110	STORMY. SKY. Obo 46	STORMY. SKY. Obo 407	STORMY. SKY. Obo 285	STORMY. SKY. Obo 118	STORMY. SKY. Obo 36	STORMY. SKY. Obo 37	STORMY. SKY. Obo 9	STORMY. SKY. Obo 37	STORMY. SKY. Obo 37	STORMY. SKY. Obo 9
h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24	h. 2. 24
l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5	l. 5. 5
g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15	g. 16. 15
u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1	u. 3. 1
WET. AIR. Obo 7	WET. AIR. Obo 11	WET. AIR. Obo 2	WET. AIR. Obo 91	WET. AIR. Obo 68	WET. AIR. Obo 18	WET. AIR. Obo 116	WET. AIR. Obo 110	WET. AIR. Obo 46	WET. AIR. Obo 407	WET. AIR. Obo 285	WET. AIR. Obo 118	WET. AIR. Obo 36	WET. AIR. Obo 37	WET. AIR. Obo 9	WET. AIR. Obo 37	WET. AIR. Obo 37	WET. AIR. Obo 9
h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1	h. 1. 1
p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3	p. 16. 3
d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1	d. 1. 1
WEATHER. Obo 7	CLOUDS. Obo 11	SEA OR SWELL. Obo 2	WEATHER. Obo 91	CLOUDS. Obo 68	SEA OR SWELL. Obo 18	WEATHER. Obo 116	CLOUDS. Obo 110	SEA OR SWELL. Obo 46	WEATHER. Obo 407	CLOUDS. Obo 285	SEA OR SWELL. Obo 118	WEATHER. Obo 36	CLOUDS. Obo 37	SEA OR SWELL. Obo 9	WEATHER. Obo 37		

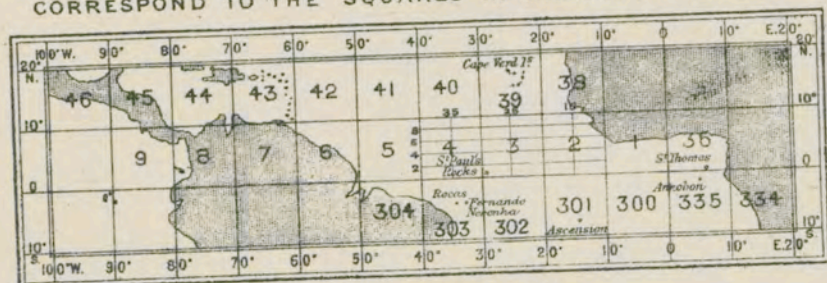
SQUARES
2, 3, 4.
MARCH.

MARCH

WINDS, CURRENTS, SPECIFIC GRAVITY,
BAROMETER, TEMPERATURE



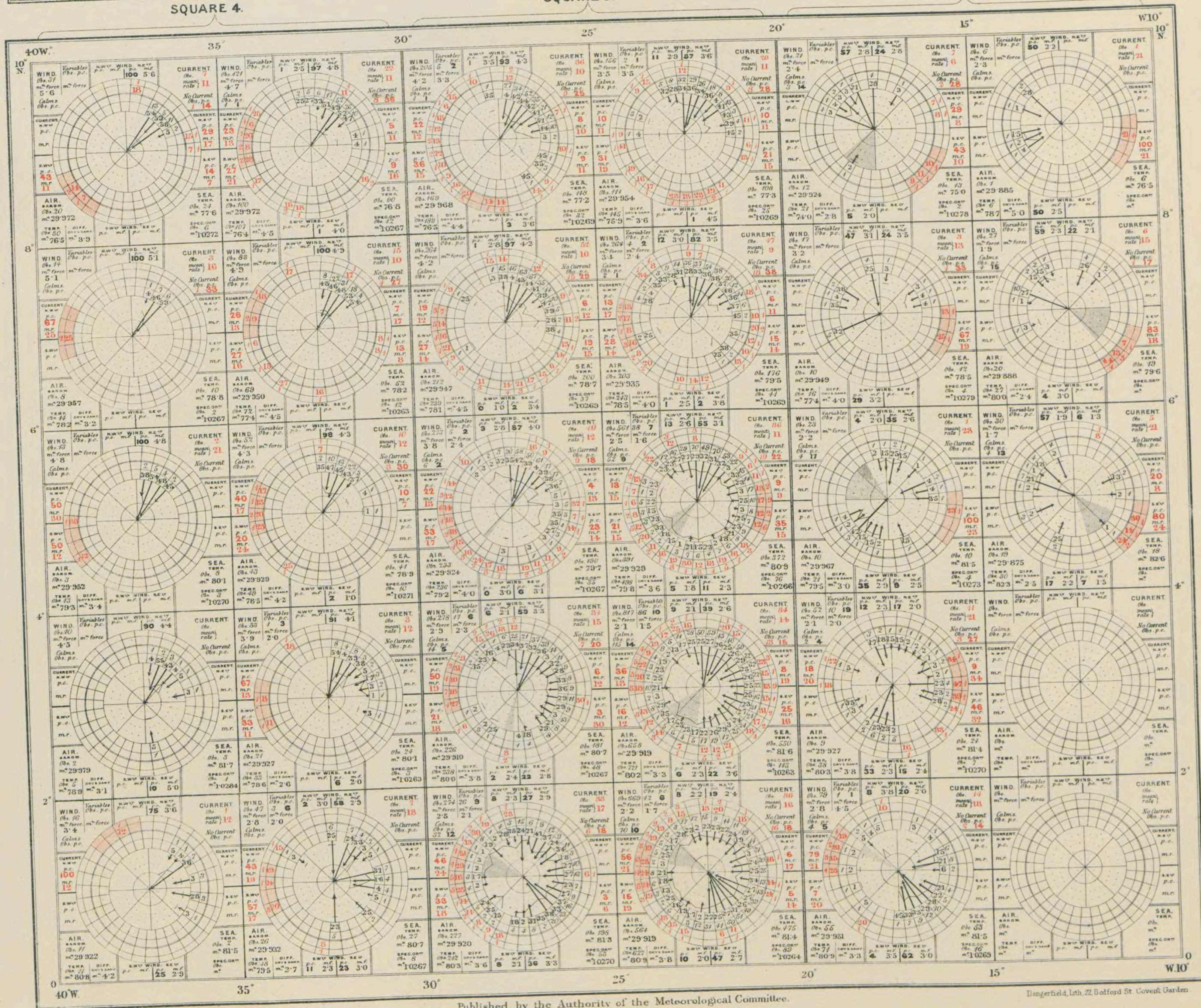
THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 3.

SQUARE 2.



MARCH.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

Scale of Wind Force.

BEAUFORT NOTATION.

Weather.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots of way with all sail set would go in 3. 4.
smooth water and clean full from 5. 6.
Rough &c.
Single reefed topsails &c.
Double reefed topsails, &c.
Triple reefed topsails, &c.
Close reefed topsails &c.
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-stay-sails.
Which no canvas could withstand.

- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
i Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
q Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance of weather.
v Visibility. Objects at a distance unusually visible.
w Dew.
- NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

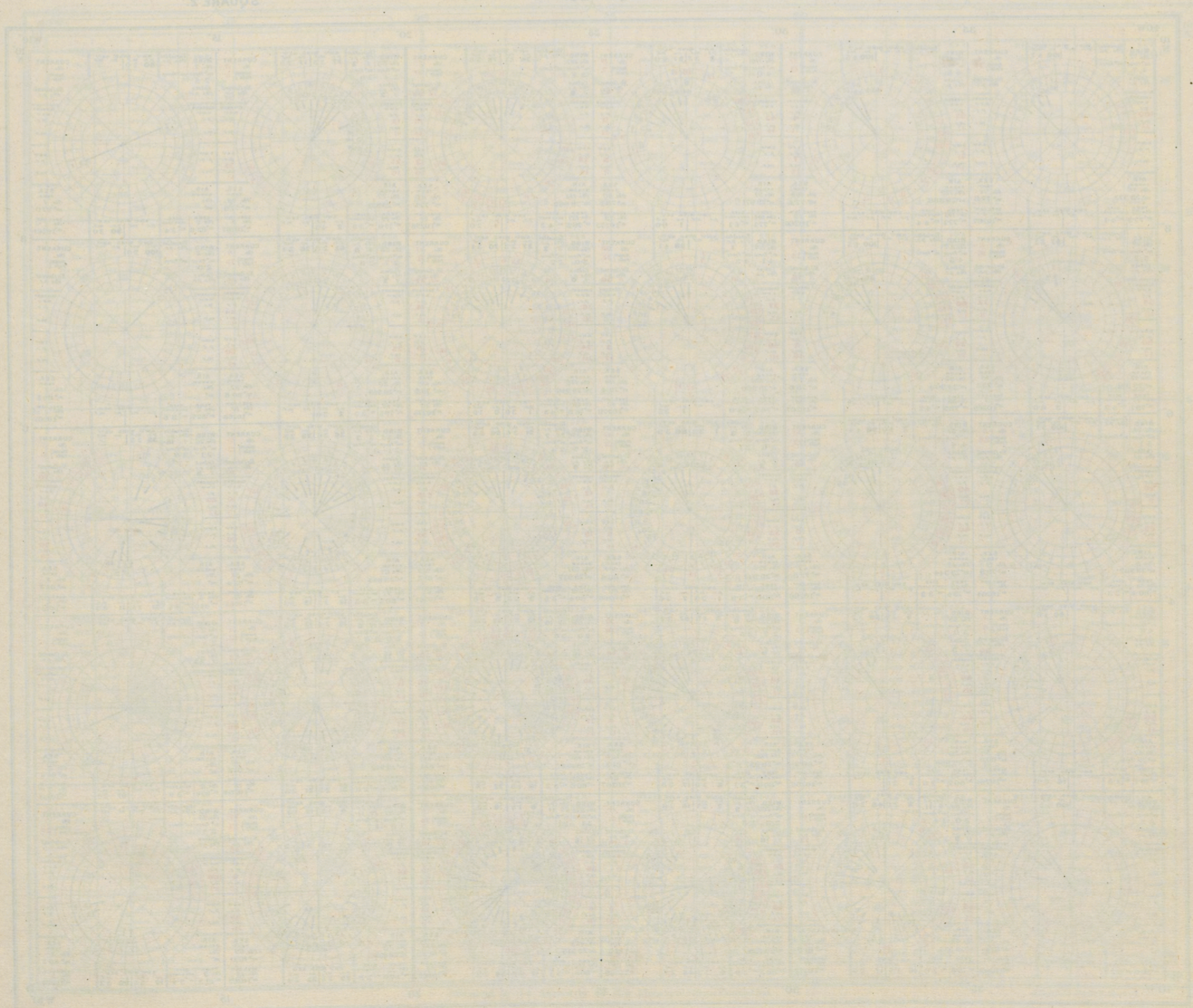
SQUARES

2, 3, 4.

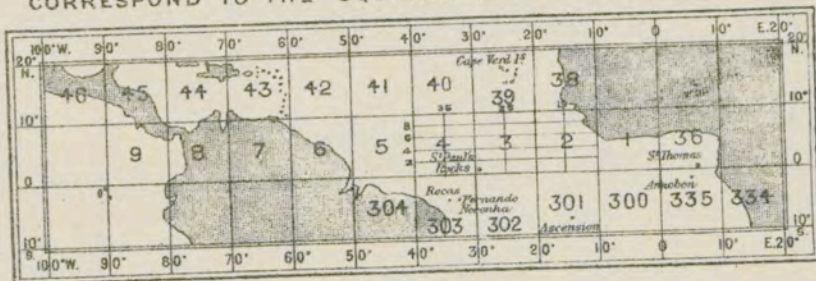
MARCH.

40° W.	35°	30°	25°	20°	15°	10°
10° N.						
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6°						
4°						
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0°						
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14° S.						
16° S.						
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20° S.						
22° S.						
24° S.						
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32° S.						
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336° S.						
338° S.						
340° S.						
342° S.						
344° S.						
346° S.						
348° S.						
350° S.						
352° S.						
354° S.						
356° S.						
358° S.						
360° S.						

SQUARES
2, 3, 4.
APRIL.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

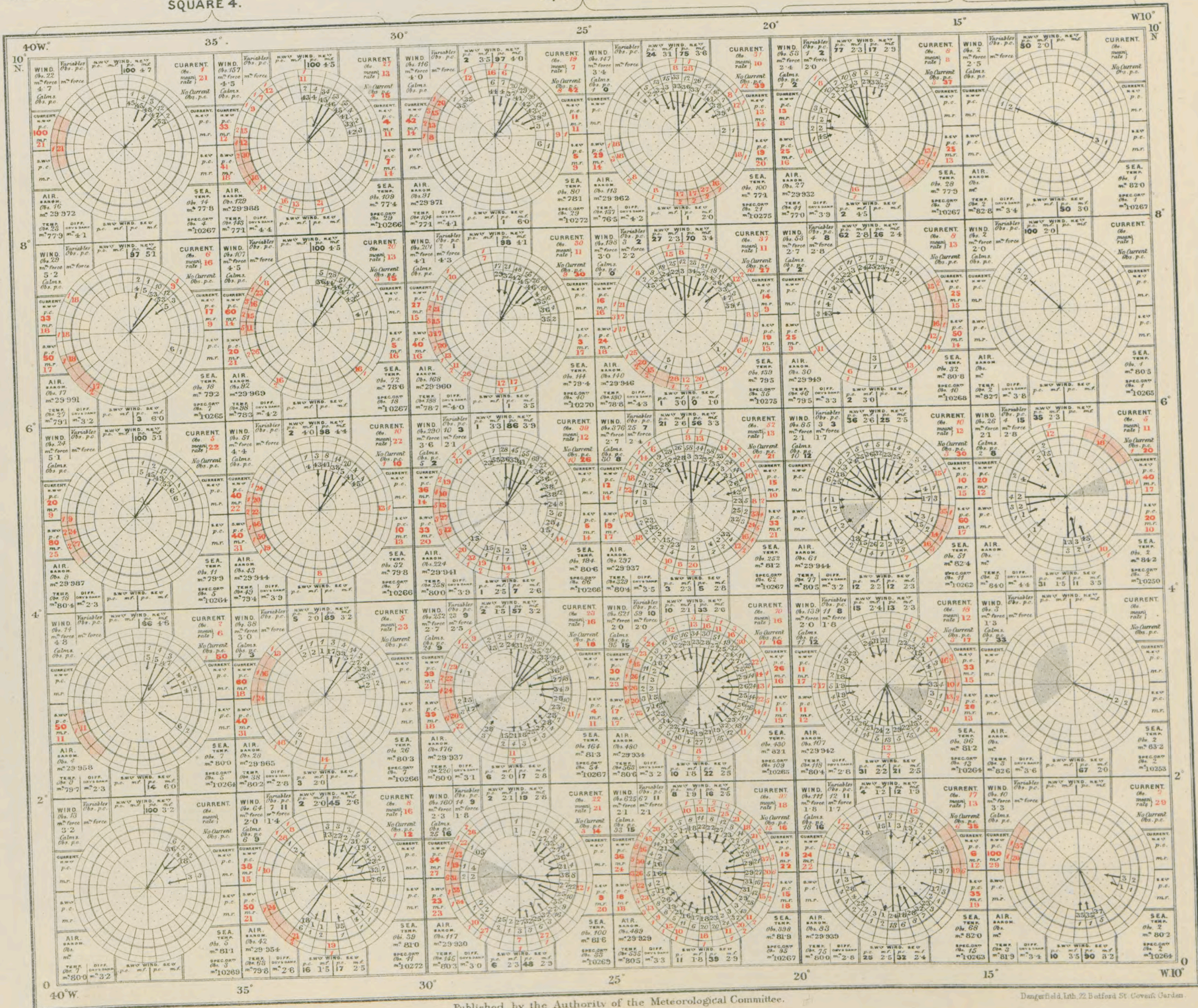


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 4.

SQUARE 3.

SQUARE 2.



APRIL.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

0	Calm		
1	Light air	Just sufficient to give steerage way.	
2	Light breeze	With which a well conditioned ship 1 to 2 knots of war, with all sail set, would go in 3 . 4 . 5	
3	Gentle breeze		
4	Moderate breeze	smooth water and "clean full" from 5 . 6 .	
5	Fresh breeze		Roads, &c.
6	Strong breeze	To which she could carry in chase "full and by	Single reefed topsails, &c.
7	Forceful gale		Doubler reefed topsails, rib-
8	Fresh gale		Triple reefed topsails, &c.
9	Strong gale		Close reefed topsails, &c.
10	Whole gale	With which she could scarcely bear close reefed main-top-sail and reefed foresail.	
11	Storm	Which would reduce her to storm-slay sails.	
12	Hurricane	Which no canvas could withstand.	

<i>b</i> Blue sky.	<i>g</i> Squally.
<i>c</i> Clouds (detached).	<i>r</i> Rain.
<i>d</i> Drizzling rain.	<i>s</i> Snow.
<i>f</i> Foggy.	<i>t</i> Thunder.
<i>g</i> Gloomy.	<i>u</i> Ugly (threatening appearance of weather).
<i>h</i> Hail.	<i>v</i> Visibility. Objects at a distance unusually visible.
<i>l</i> Lightning.	<i>w</i> Dew.
<i>m</i> Misty (hazy).	
<i>o</i> Overcast.	
<i>p</i> Passing showers.	

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

SQUARES

2, 3, 4.

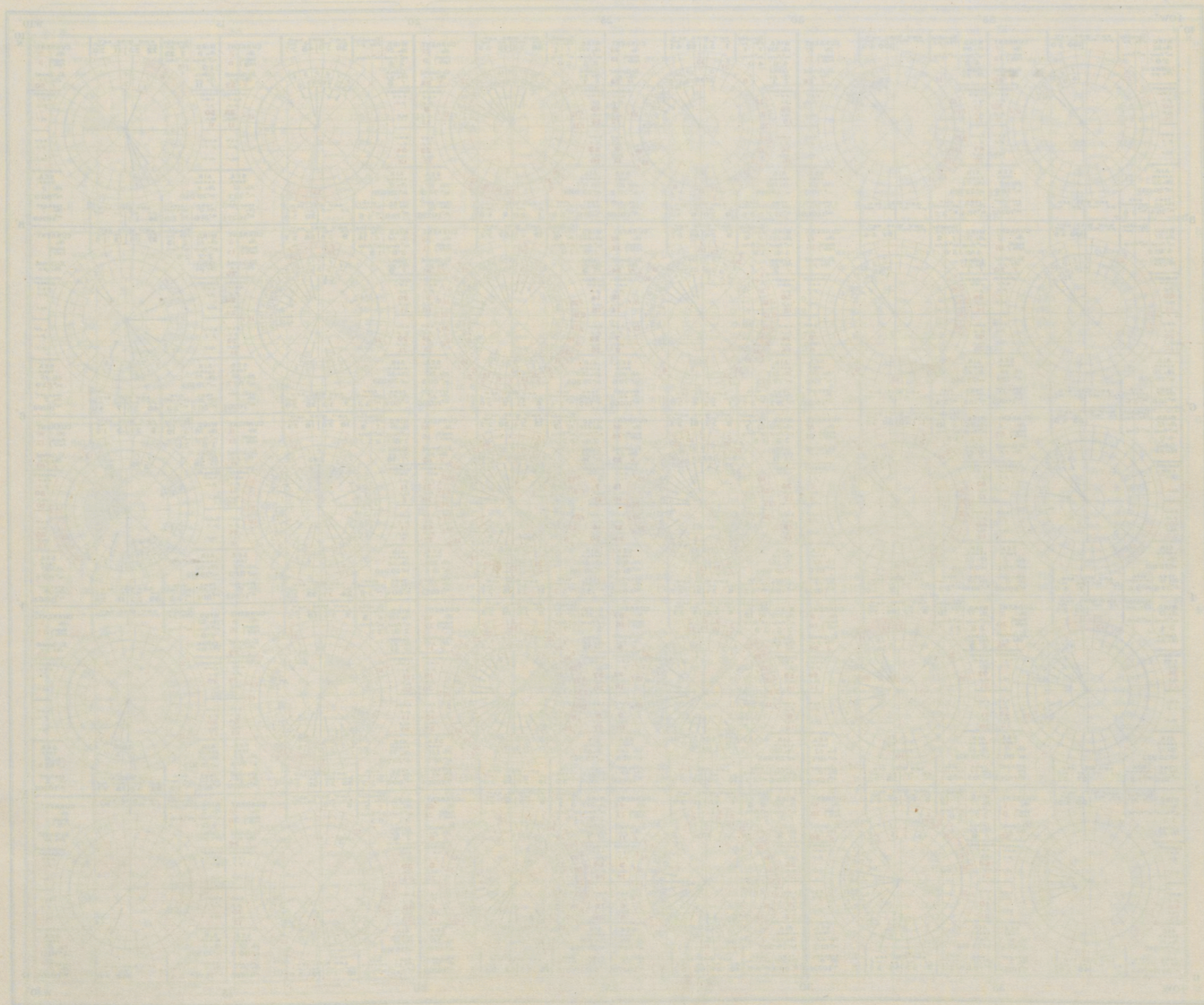
APRIL.

40°W.	35°	30°	25°	20°	15°	10°W.
10°N.						10°N.
8°						8°
6°						6°
4°						4°
2°						2°
0°						0°
40°W.	35°	30°	25°	20°	15°	10°W.

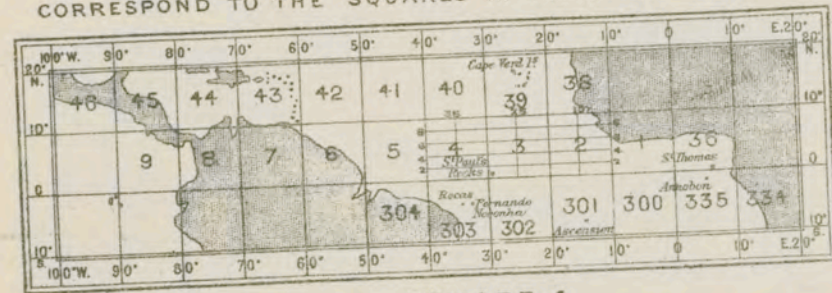
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SQUARES
2, 3, 4.
MAY.



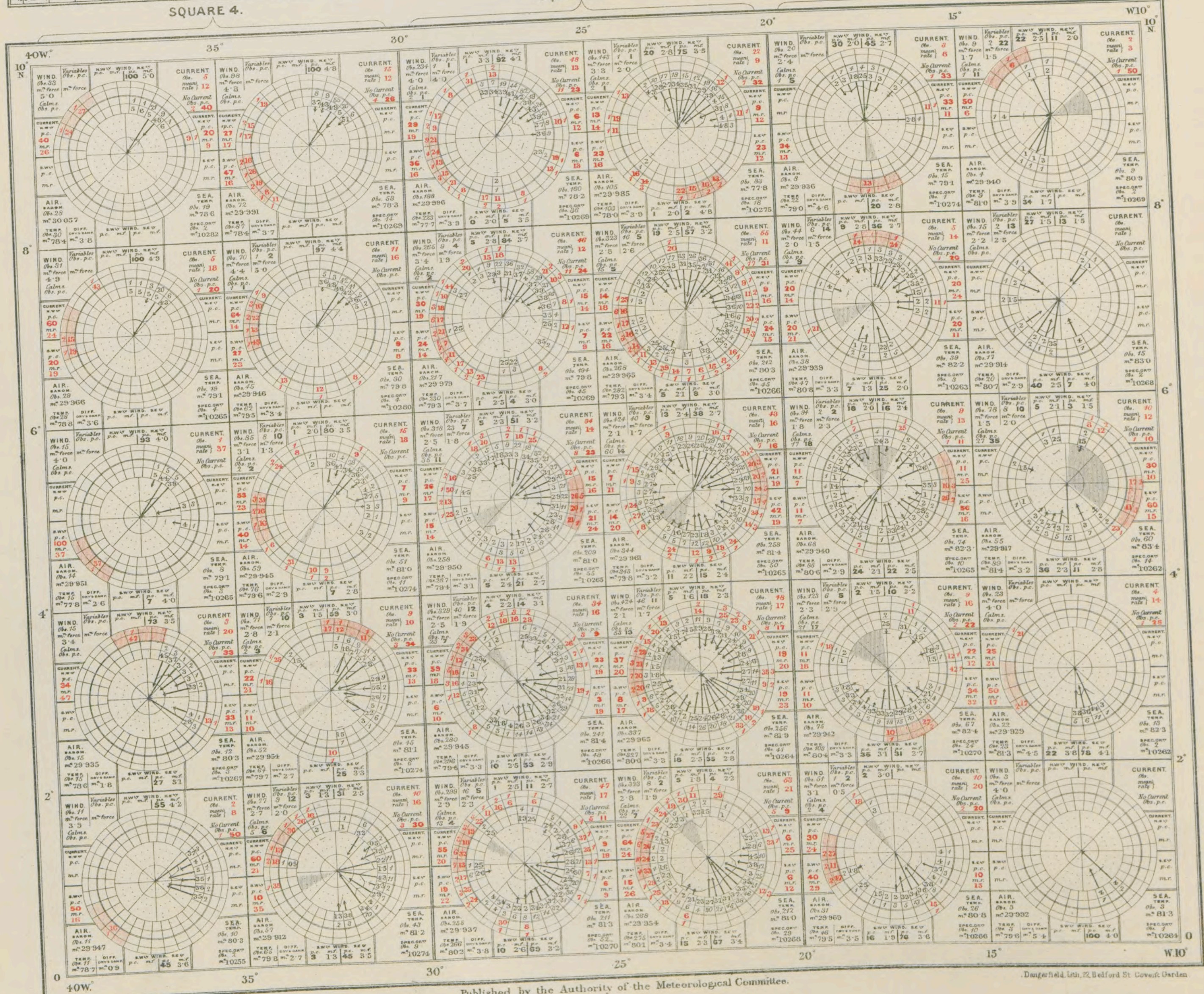
THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 3.

SQUARE 2.



WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 2.

Weather.

NOTE. To avoid repetition the bar (→) representing intensity usually given below each letter is on these Charts given at the head of a column.

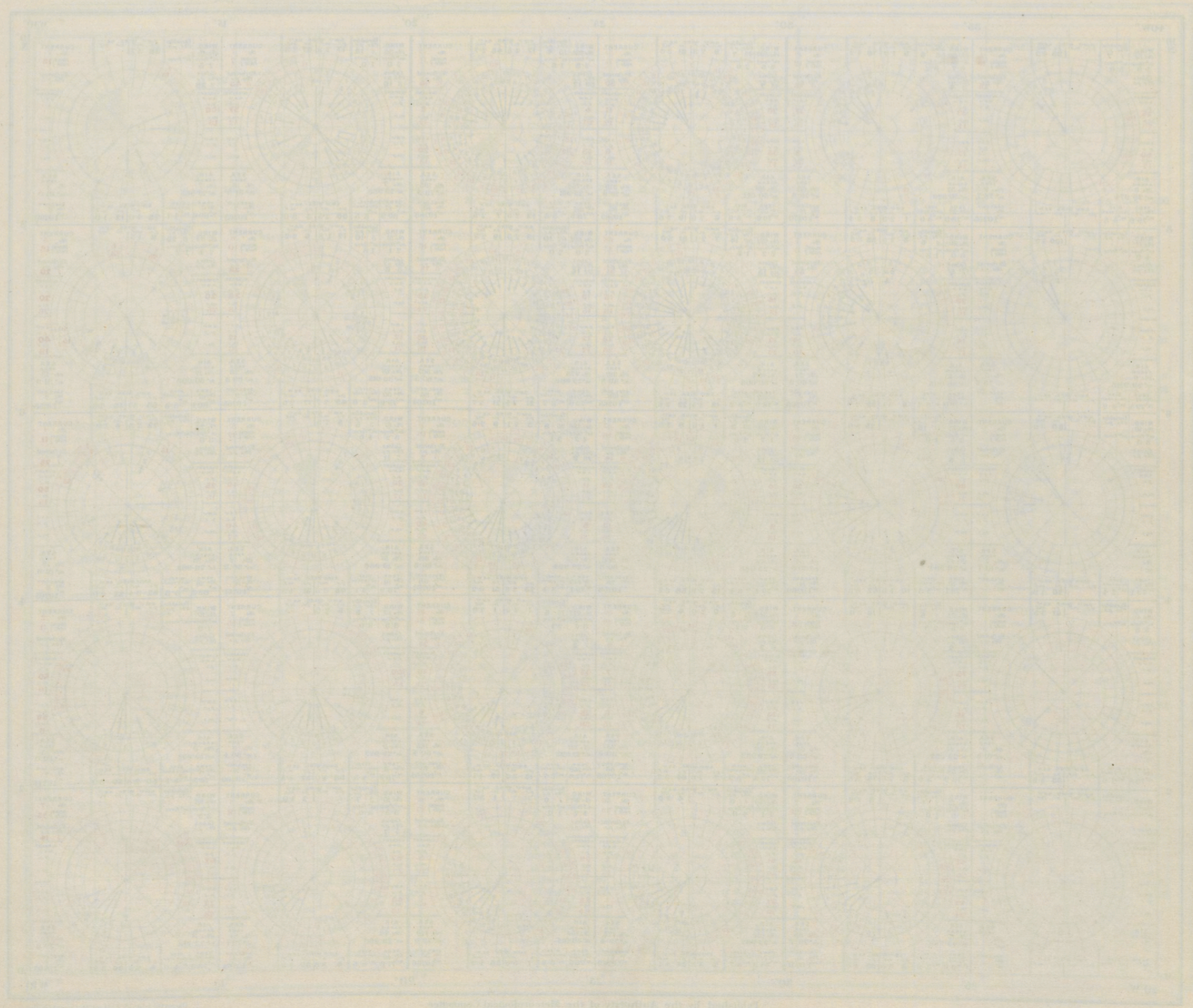
MAY.

Dangerfield, Lath. 22, Bedford St. Covent Garden

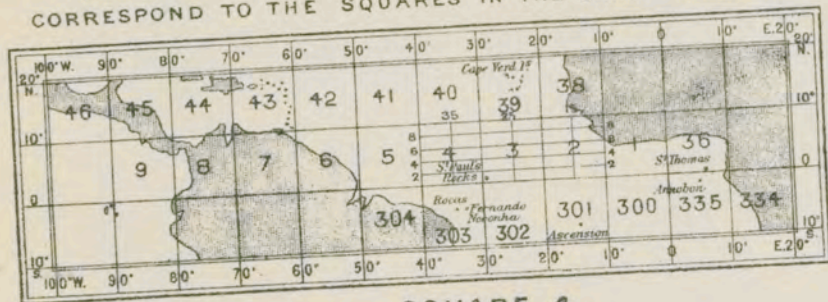
SQUARES
2, 3, 4.
JUNE.

LINE.

WINDS, CURRENTS, TEMPERATURE, SPECIFIC GRAVITY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

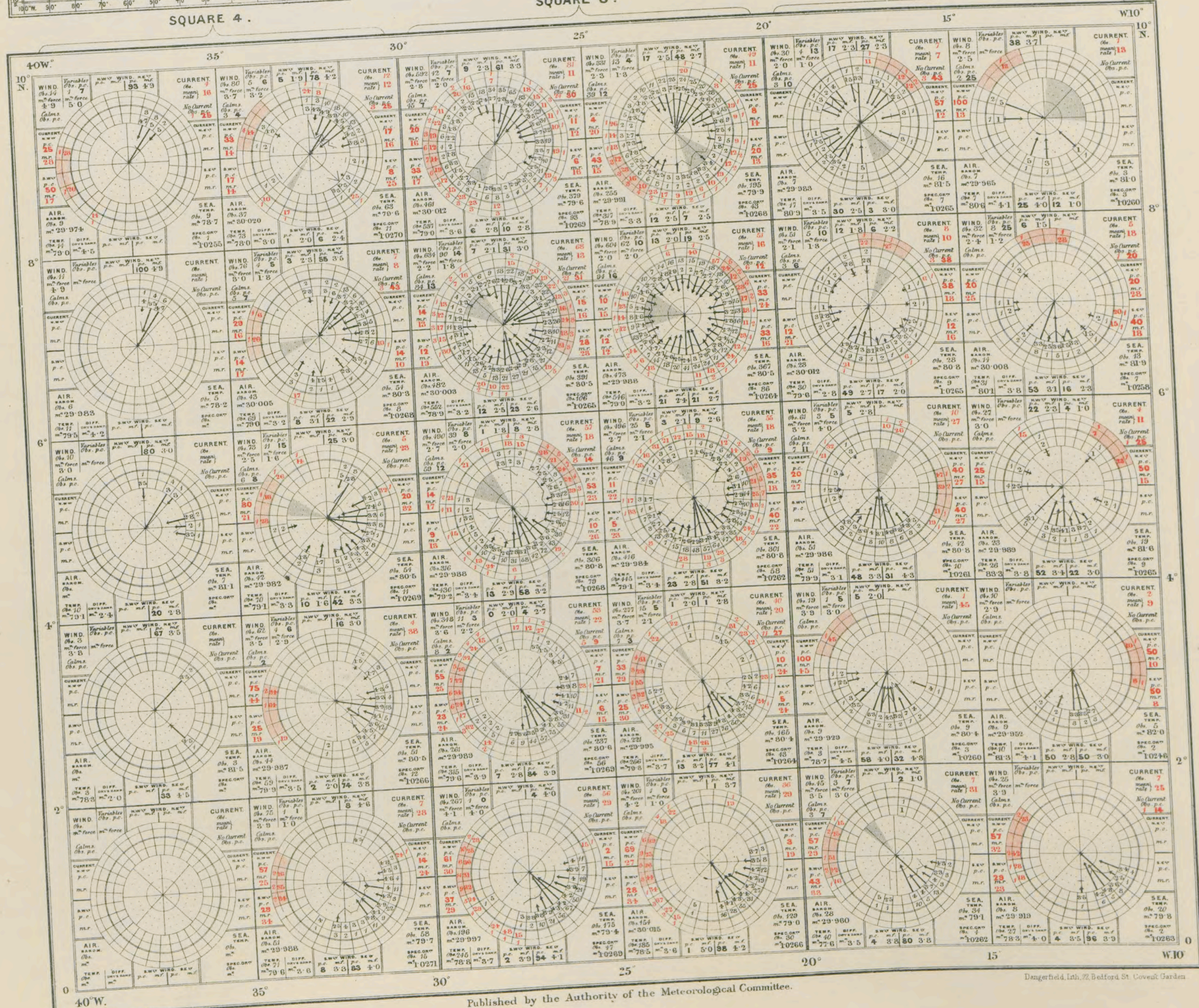


WINDS, CURRENTS,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 2.

SQUARE 3.

SQUARE 4.



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JUNE.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather.

0	Calm		
1	Light air	Just sufficient to give steerage way.	
2	Light breeze	} With which a well conditioned ship 1 to 2 knots of-war with all sail set, would go in 3 . 4 . 5	
3	Gentle breeze		
4	Moderate breeze		smooth water and clean full in 3 . 6 .
5	Fresh breeze		Royals, &c.
6	Strong breeze	} To which she could carry in chase, full and by	Single reefed top, & 1/2 G's
7	Moderate gale		Double reefed topsails, jib
8	Fresh gale		Triple reefed topsails, &c.
9	Strong gale		Close-reefed masts, &c.
10	Whole gale	With which she could scarcely bear close-reefed main-top-sail and reefed fore-sail.	
11	Storm	Which would reduce her to storm-stay sails.	
12	Hurricane	Which no canvas could withstand.	

<i>b</i>	Blue sky.	<i>q</i>	Squally
<i>c</i>	Clouds (detached).	<i>r</i>	Rain.
<i>d</i>	Drizzling rain.	<i>s</i>	Snow.
<i>f</i>	Foggy.	<i>t</i>	Thunder
<i>g</i>	Gloomy.	<i>u</i>	Ugly threatening appearance
<i>h</i>	Hail.		of weather.
<i>l</i>	Lightning.	<i>v</i>	Visibility. Objects at a distance
<i>m</i>	Misty (hazy).		unusually visible.
<i>o</i>	Overcast.	<i>w</i>	Dew
<i>p</i>	Passing showers.		

SQUARES

2, 3, 4.

JUNE.

40°W	35°	30°	25°	20°	15°	W10°
10°N						
8°						
6°						
4°						
2°						
0°						
40°W	35°	30°	25°	20°	15°	W10°
10°N						
8°						
6°						
4°						
2°						
0°						

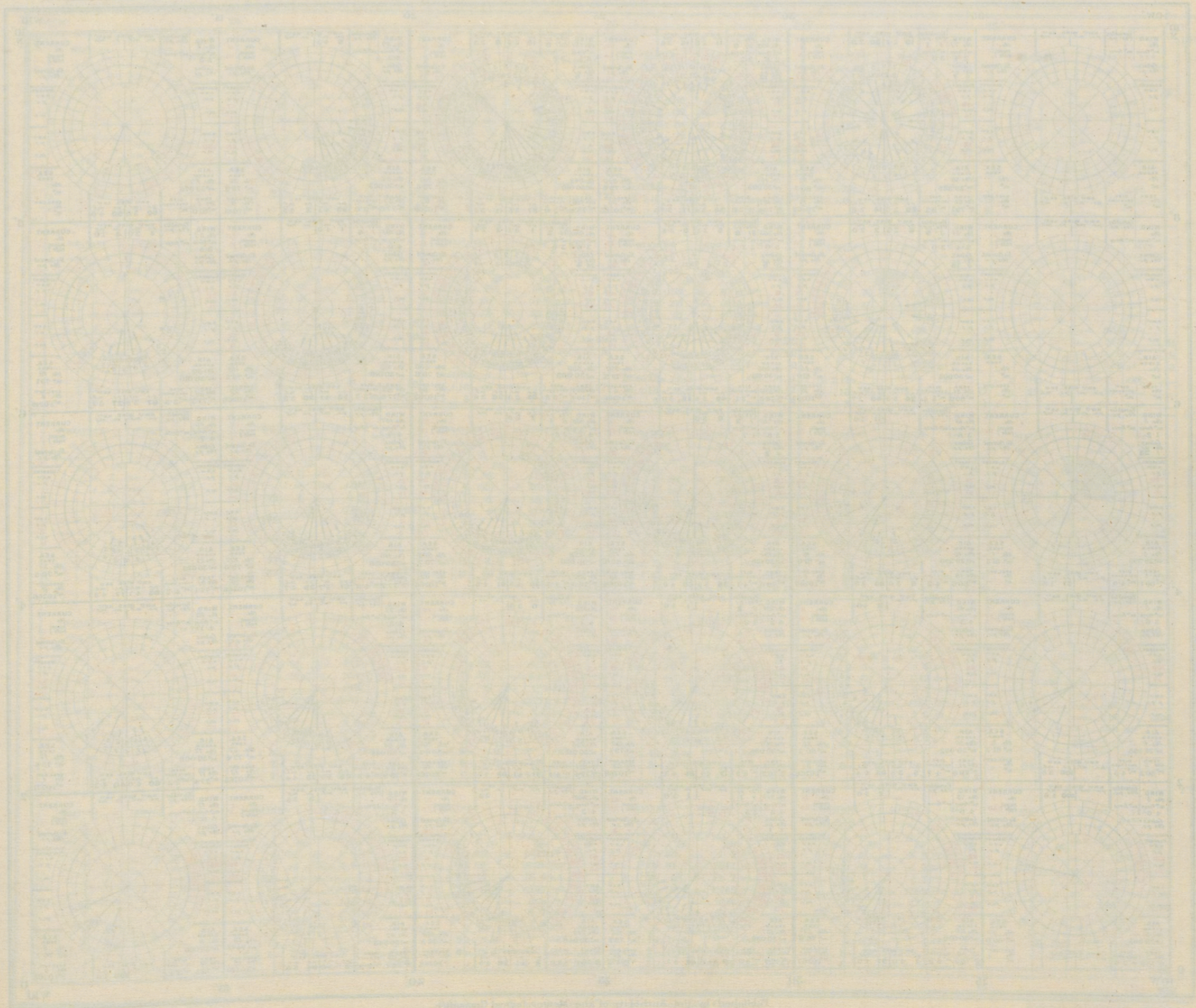
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Dangerfield, lth. 22, Bedford St. Covent Garden.

SQUARES
2, 3, 4.
JULY.

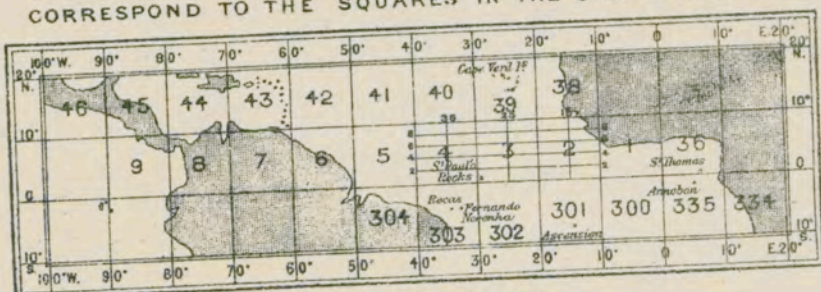
JULY.

WINDS, CURRENTS, & RAINFALL
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY



JULY.

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

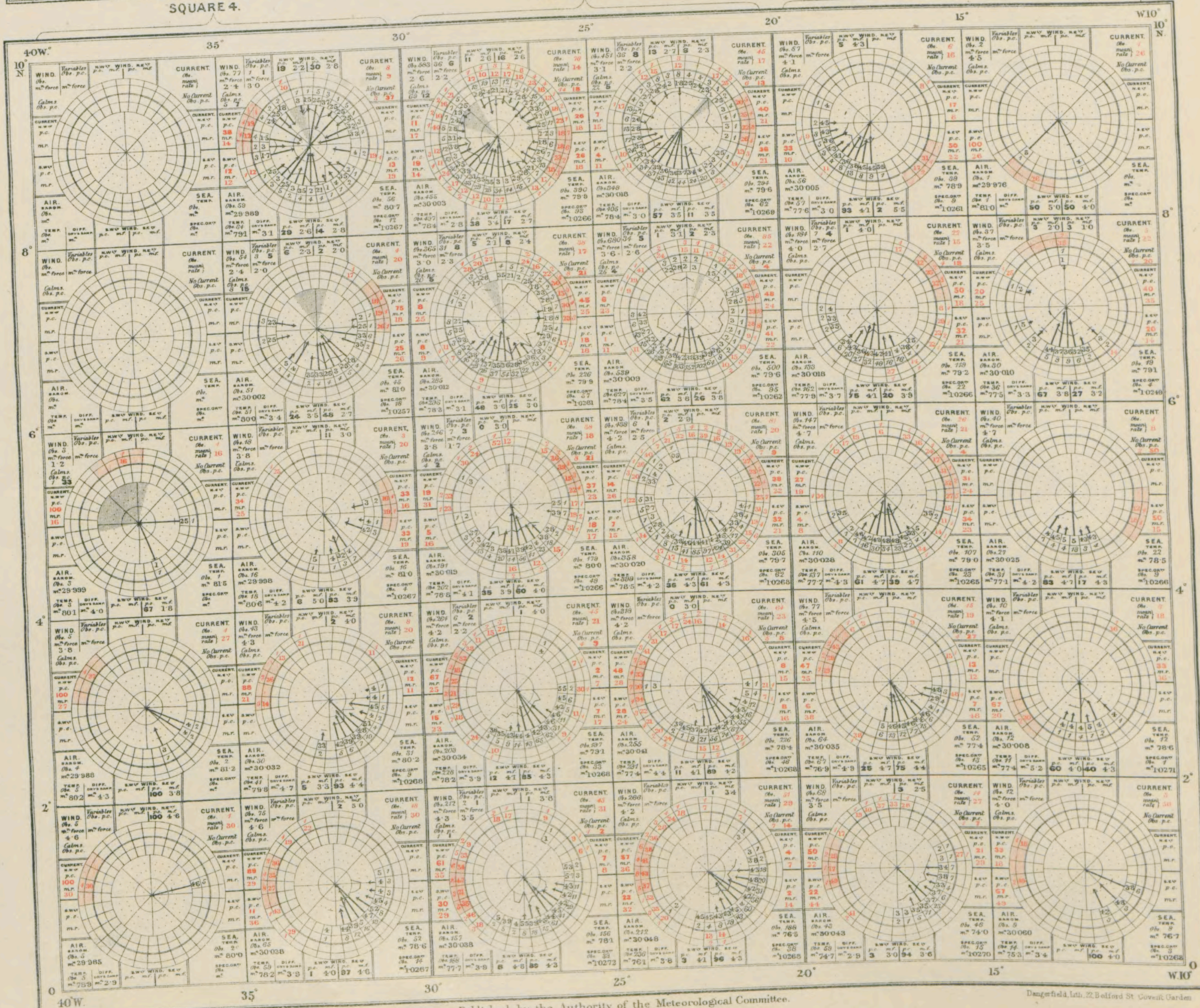


WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 3.

SQUARE 2.

SQUARE 4.



JULY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

Scale of Wind Force.

BEAUFORT NOTATION.

Weather.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots of way with all sail set would go in 3. 4 -
smooth water and 'clean full' from 5. 6 -
Rough &c.
To which she could carry
in chase, full and by
Close-reefed topsails, &c.
With which she could scarcely bear close-reefed main-top-sail and reefed fore-sail.
Which would reduce her to storm-slay sails.
Which no canvas could withstand.

- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
i Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
- g Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance of weather.
v Visibility. Objects at a distance unusually visible.
w Dew.
- NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter is on these Charts given at the head of a column.

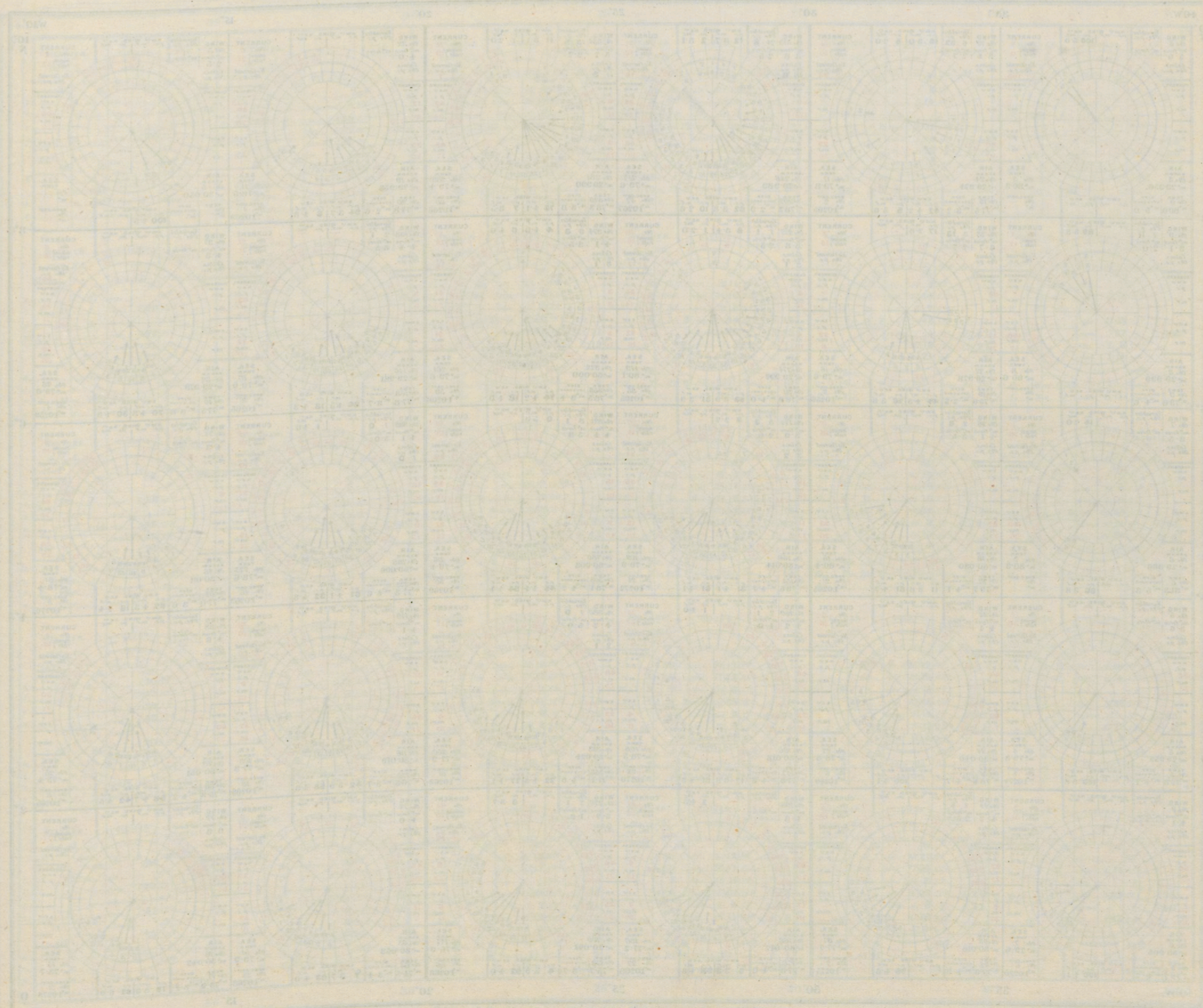
SQUARES

2, 3, 4.
JULY.

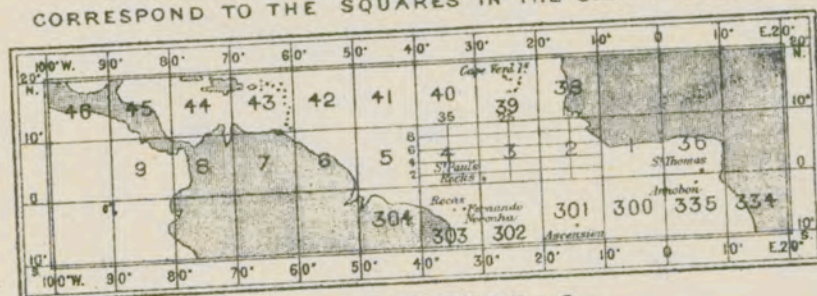
SQUARES
2, 3, 4.
AUGUST.

ALGEBRA

WINDS, CURRENTS, TEMPERATURE, SPECIFIC GRAVITY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

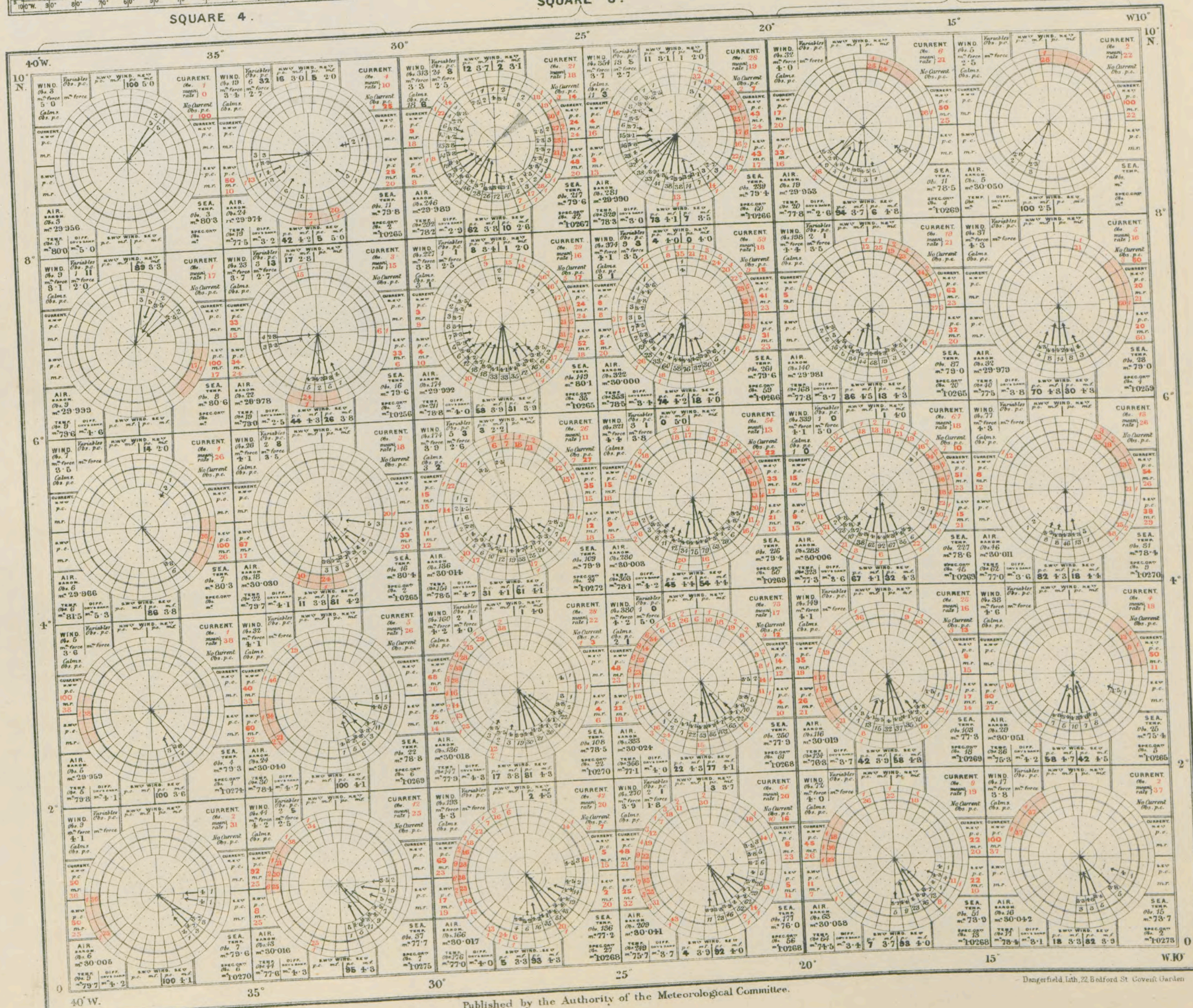


SQUARE 4.

SQUARE 3.

SQUARE 2.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



AUGUST.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather

0	Calm				
1	Light air		Just sufficient to give storage way.		
2	Light breeze	}	With which a well conditioned ship of war with all sail set would go in	1 to 2 kn	
3	Gentle breeze			3 to 4	
4	Moderate breeze			5 to 6	
5	Fresh breeze				Royals, &c.
6	Strong breeze	}	To which she could carry in chase, full and by	Single reefed topsails, &c.	
7	Moderate gale			Double reefed topsails, &c.	
8	Fresh gale			Triple reefed topsails, &c.	
9	Strong gale			Close reefed topsails, &c.	
10	Whole gale		With which she could scarcely bear close reefed main-top-sail and reefed foresail		
11	Storm		Which would reduce her to storm-stay sails.		
12	Hurricane		Which no canvas could withstand.		

Weather.	
<i>b</i> Blue sky.	<i>q</i> Squally.
<i>c</i> Clouds (detached).	<i>r</i> Rain.
<i>d</i> Drizzling rain.	<i>s</i> Snow.
<i>f</i> Foggy.	<i>t</i> Thunder.
<i>g</i> Gloomy.	<i>u</i> Ugly threatening appearance
<i>h</i> Hail.	of weather.
<i>i</i> Lightning.	<i>v</i> Visibility. Objects at a distance
<i>m</i> Misty (hazy).	unusually visible.
<i>o</i> Overcast.	<i>w</i> Dew.
<i>p</i> Passing showers.	

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

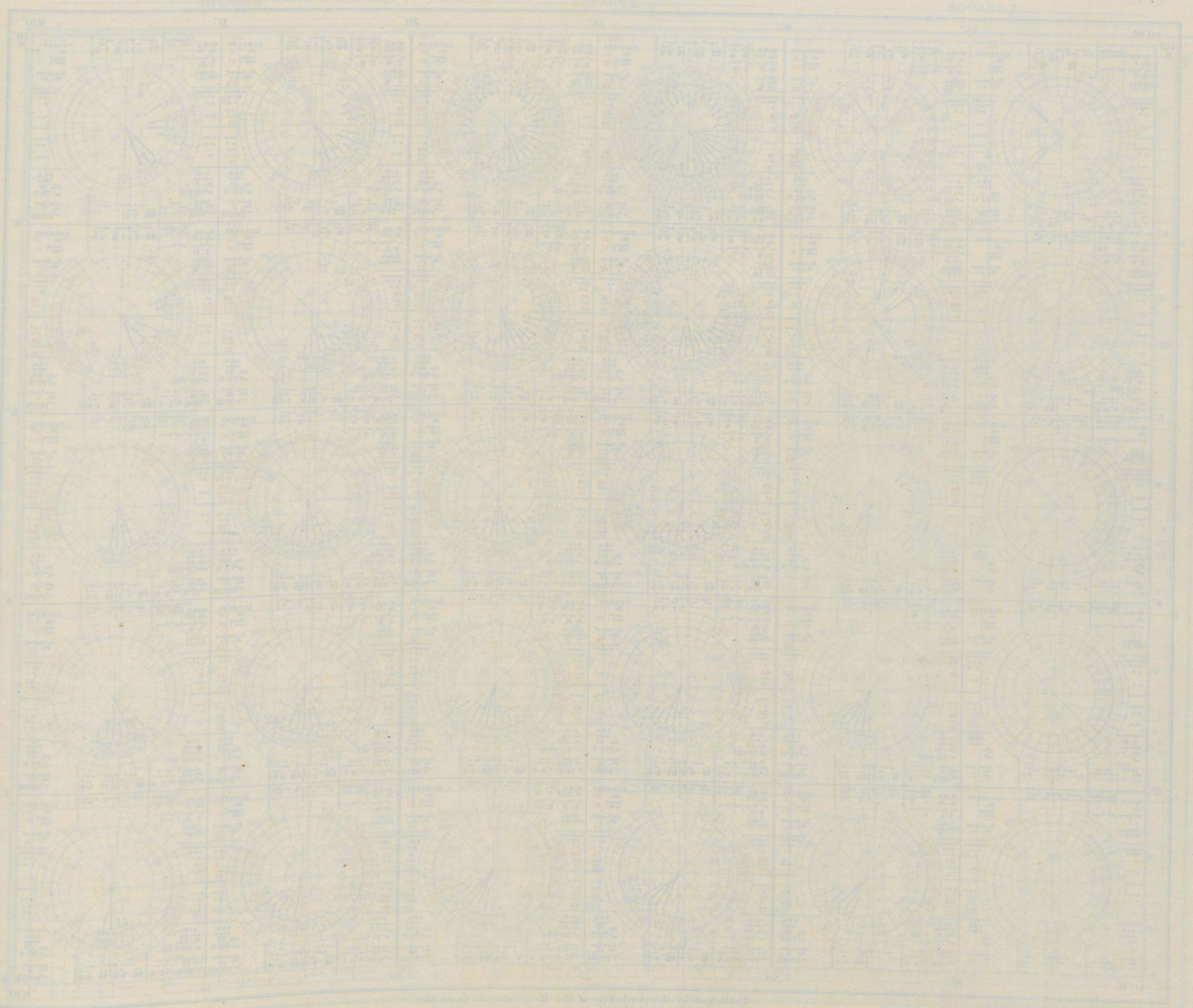
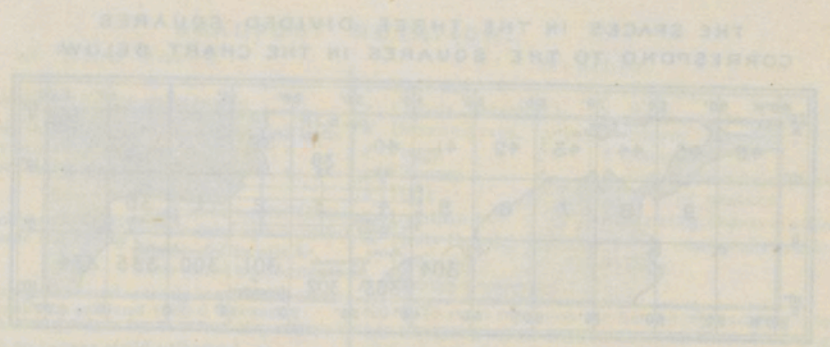
SQUARES
2, 3, 4.
AUGUST.

[illegible]

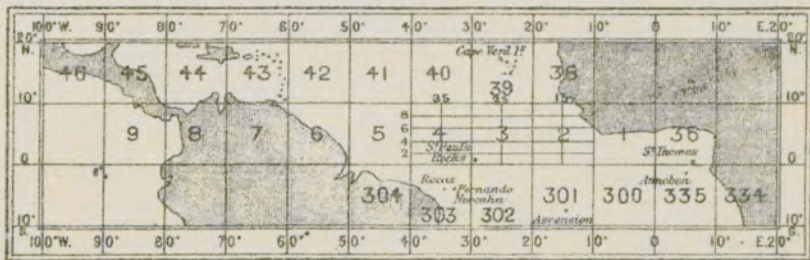
SQUARES
2, 3, 4.
SEPTEMBER.

SEPTEMBER.
SEPTEMBER.

WINDS, CURRENTS,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY,
SEA OR SWELL.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



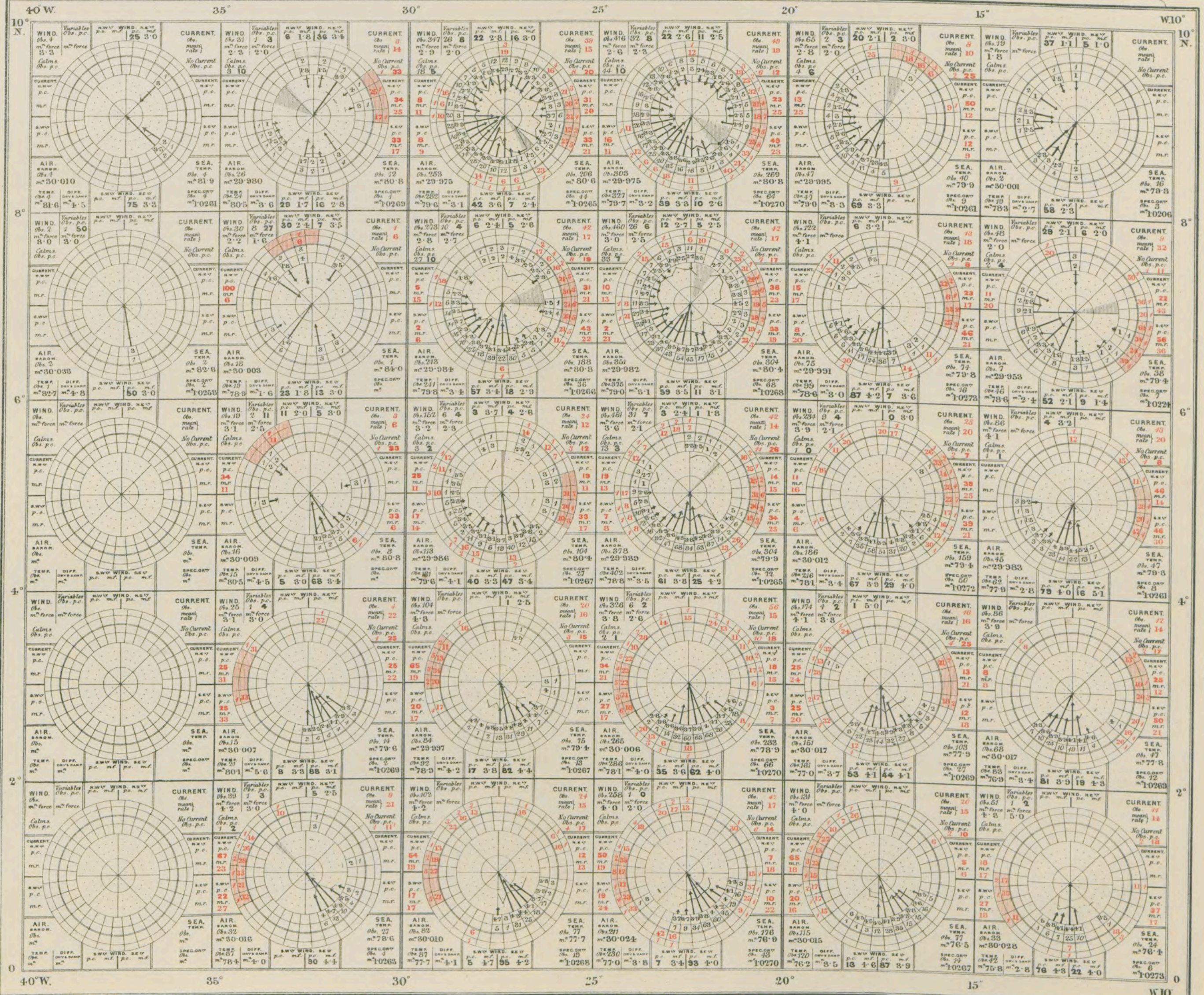
SQUARE 4.

SQUARE 3.

SQUARE 2.

SEPTEMBER.

WINDS, CURRENTS,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



SQUARES
2, 3, 4.
SEPTEMBER.

Weather

b	Blue sky.	q	Squally.
c	Clouds (detached).	r	Rain.
d	Drizzling rain.	s	Snow.
f	Foggy.	t	Thunder.
g	Gloomy.	u	Ugly (threatening) appearance
h	Hail.		of weather.
l	Lightning.	v	Visibility. Objects at a distance
m	Misty (hazy).		unusually visible.
n	Overcast.	w	Dew.
p	Passing showers.		

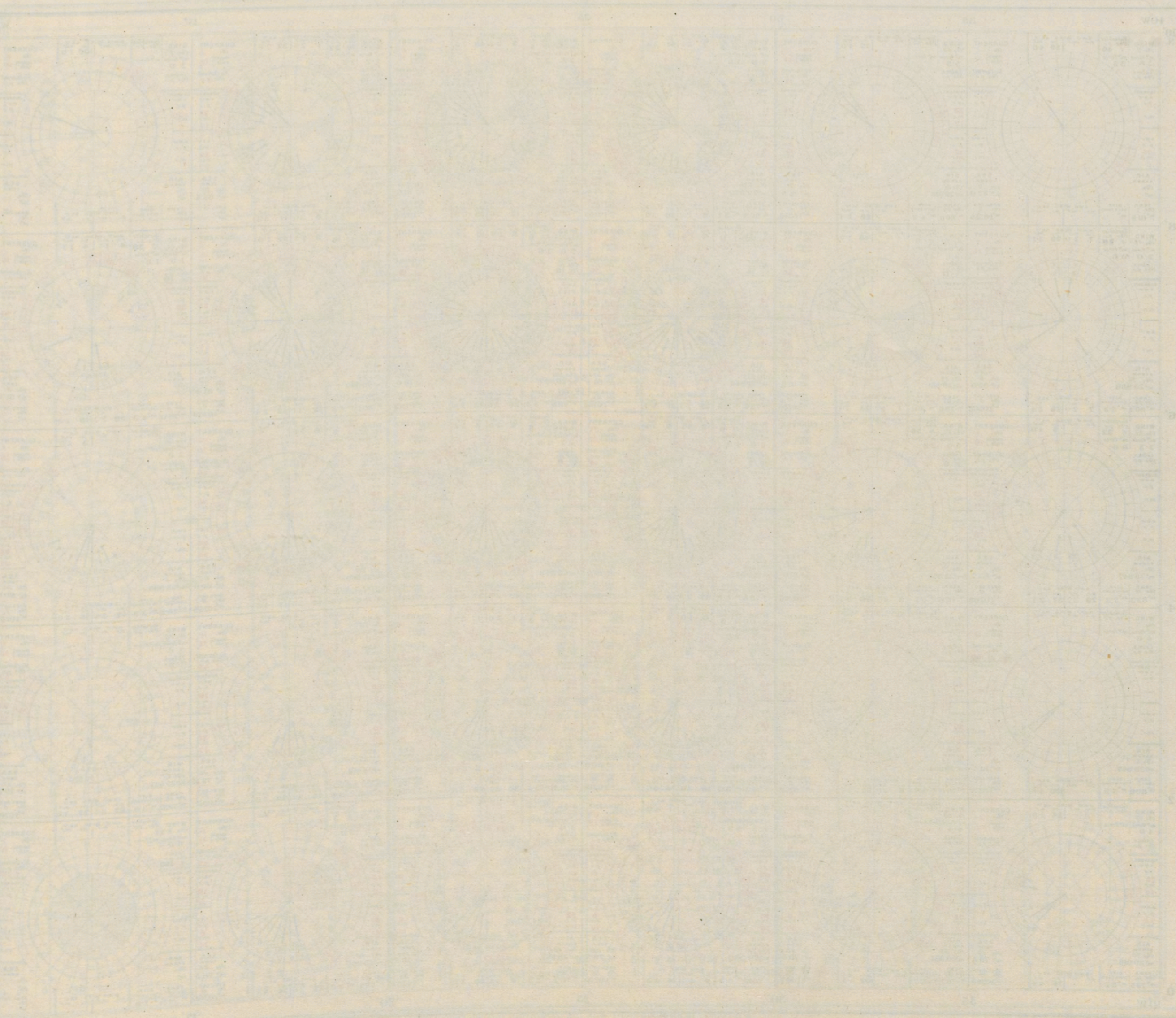
NOTE To avoid repetition the bar (—) representing intensity usually given below each letter is on these Charts given at the head of a column.

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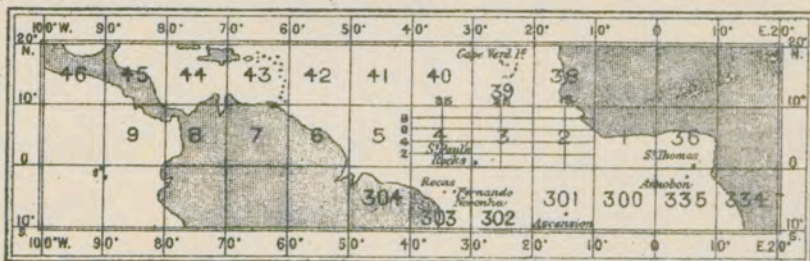
SQUARE 2.

Dangerfield, Lith, 22, Bedford St. Covent Garden

SQUARES
2, 3, 4.
OCTOBER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



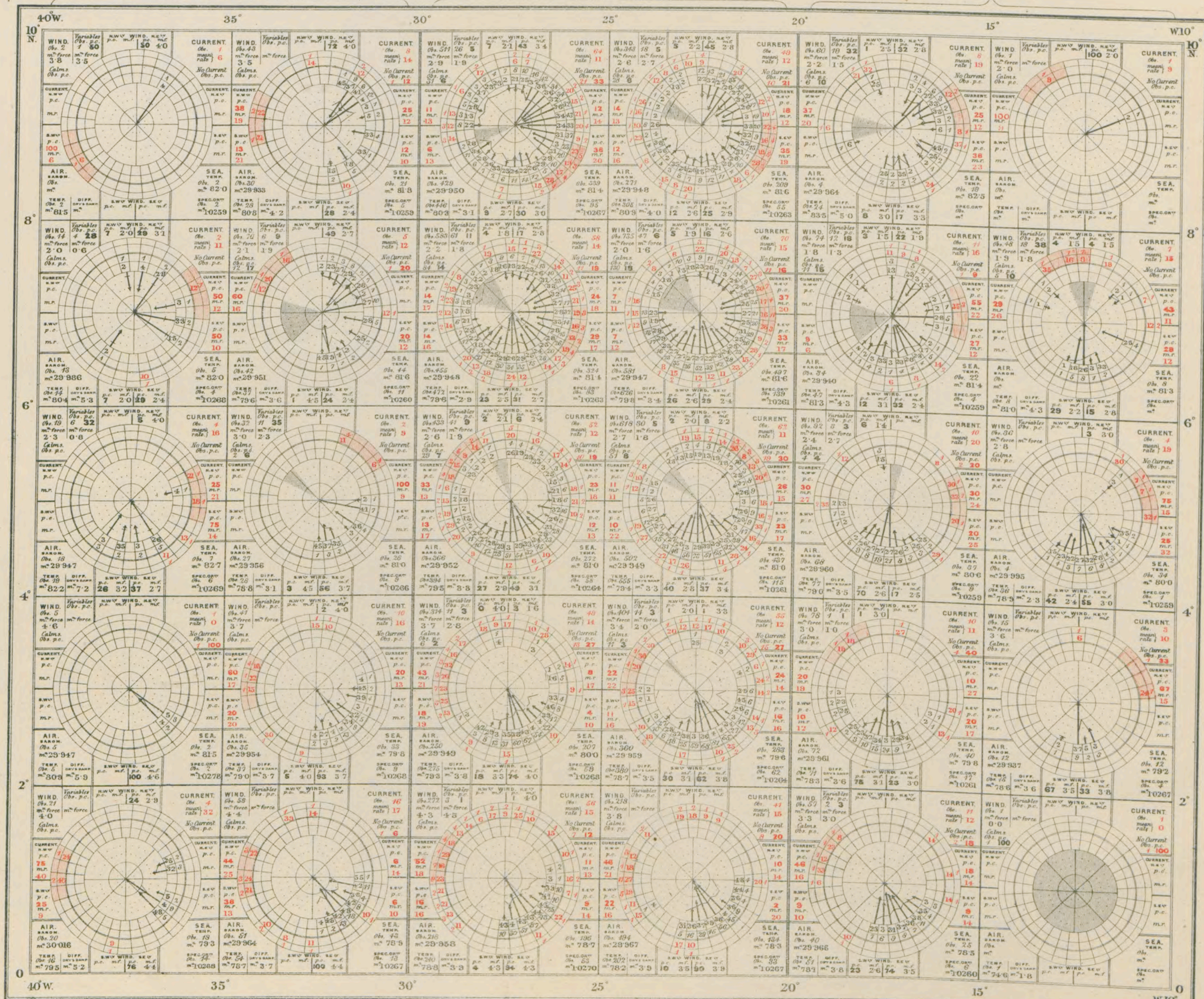
SQUARE 4.

SQUARE 3.

SQUARE 2.

OCTOBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



OCTOBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

Scale of Wind Force.

BEAUFORT NOTATION.

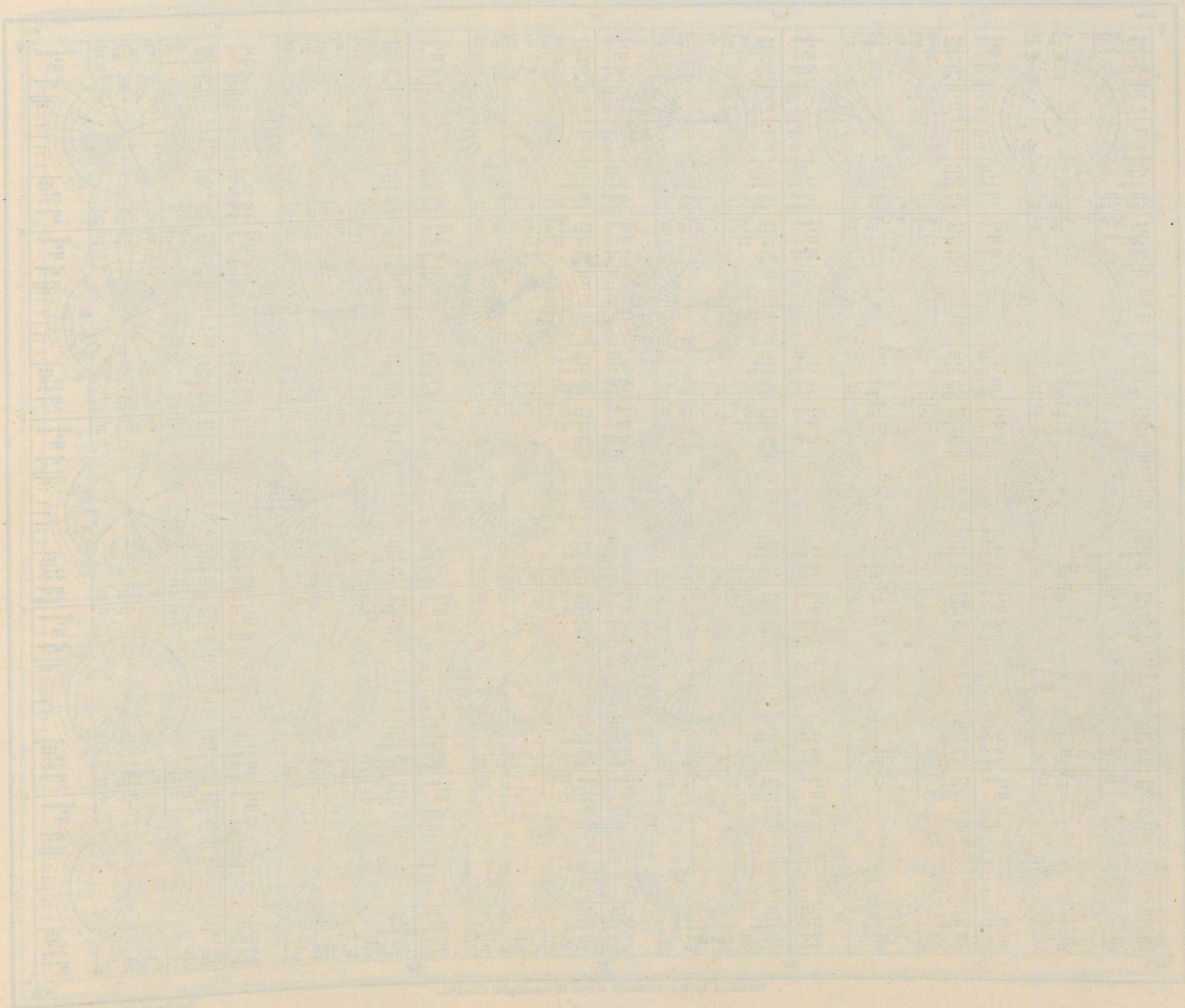
Weather.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots of war with all sail set, would go in 3. 4.
smooth water and clean full from 5. 6.
Royals &c.
Single reefed topsails, &c. &c.
Double reefed topsails, &c.
Triple reefed topsails, &c.
Close reefed topsails, &c.
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-stay sails.
Which no canvas could withstand.

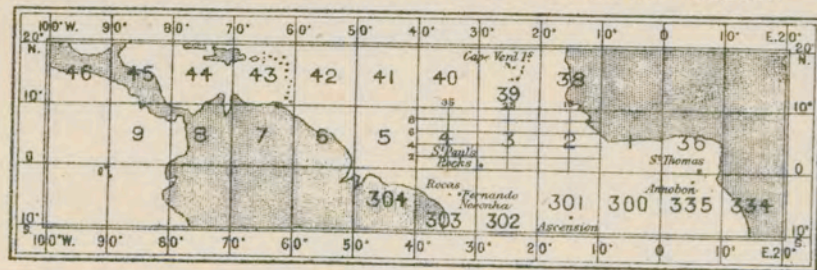
- Blue sky.
Clouds (detached).
Drizzling rain.
Foggy.
Gloomy.
Hail.
Lightning.
Misty (hazy).
Overcast.
Passing showers.
Squally.
Rain.
Snow.
Thunder.
Ugly threatening appearance of weather.
Visibility. Objects at a distance unusually visible.
Dew.
- NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

40° W.			35°			30°			25°			20°			15°			10° W.		
10° N.			8°			6°			4°			2°			0°			2° S.		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. 2			Obs. 38			Obs. 12			Obs. 470			Obs. 289			Obs. 36			Obs. 1		
STORMY.	SKY.	Obs. 2	STORMY.	SKY.	Obs. 38	STORMY.	SKY.	Obs. 12	STORMY.	SKY.	Obs. 470	STORMY.	SKY.	Obs. 289	STORMY.	SKY.	Obs. 36	STORMY.	SKY.	Obs. 1
1	50	1	1	50	1	1	50	1	1	50	1	1	50	1	1	50	1	1	50	1
2	50	2	2	50	2	2	50	2	2	50	2	2	50	2	2	50	2	2	50	2
3	50	3	3	50	3	3	50	3	3	50	3	3	50	3	3	50	3	3	50	3
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48	50	48	48	50	48	48	50	48	48	50	48	48	50	48	48	50	48	48	50	48
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50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50

SQUARES
2, 3, 4.
NOVEMBER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



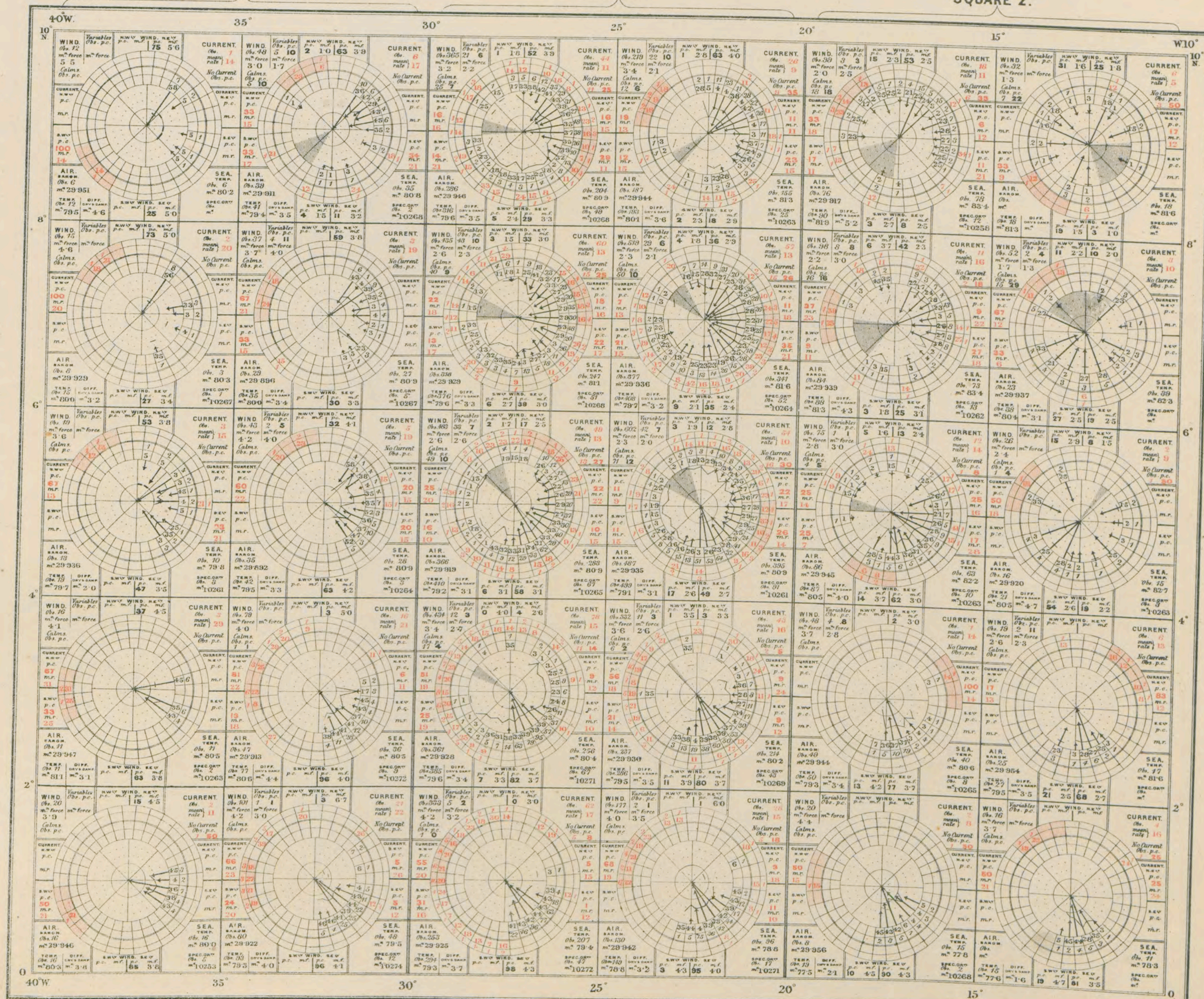
SQUARE 4.

SQUARE 3.

SQUARE 2.

NOVEMBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



Published by the Authority of the Meteorological Committee.

Dangerfield, Ltd., 22, Bedford St. Covent Garden.

NOVEMBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

BEAUFORT NOTATION.
Scale of Wind Force.

Weather

0	Calm	Scarcely of wind force.
1	Light air	Just sufficient to give steerage way
2	Light breeze	With which a well conditioned ship
3	Gentle breeze	of war with all sail set, would go in
4	Moderate breeze	smooth water and clean full, in
5	Fresh breeze	Royals &
6	Strong breeze	Single reefed tops & T.G.
7	Moderate gale	Double reefed topsails, &
8	Fresh gale	Triple reefed topsails, &
9	Strong gale	Close reefed tops & fore
10	Whole gale	With which a ship could scarcely bear close reefed main-top-sail and fore-top-sail
11	Storm	Which would reduce her to storm-stay-sails
12	Hurricane	Which no canvas could withstand

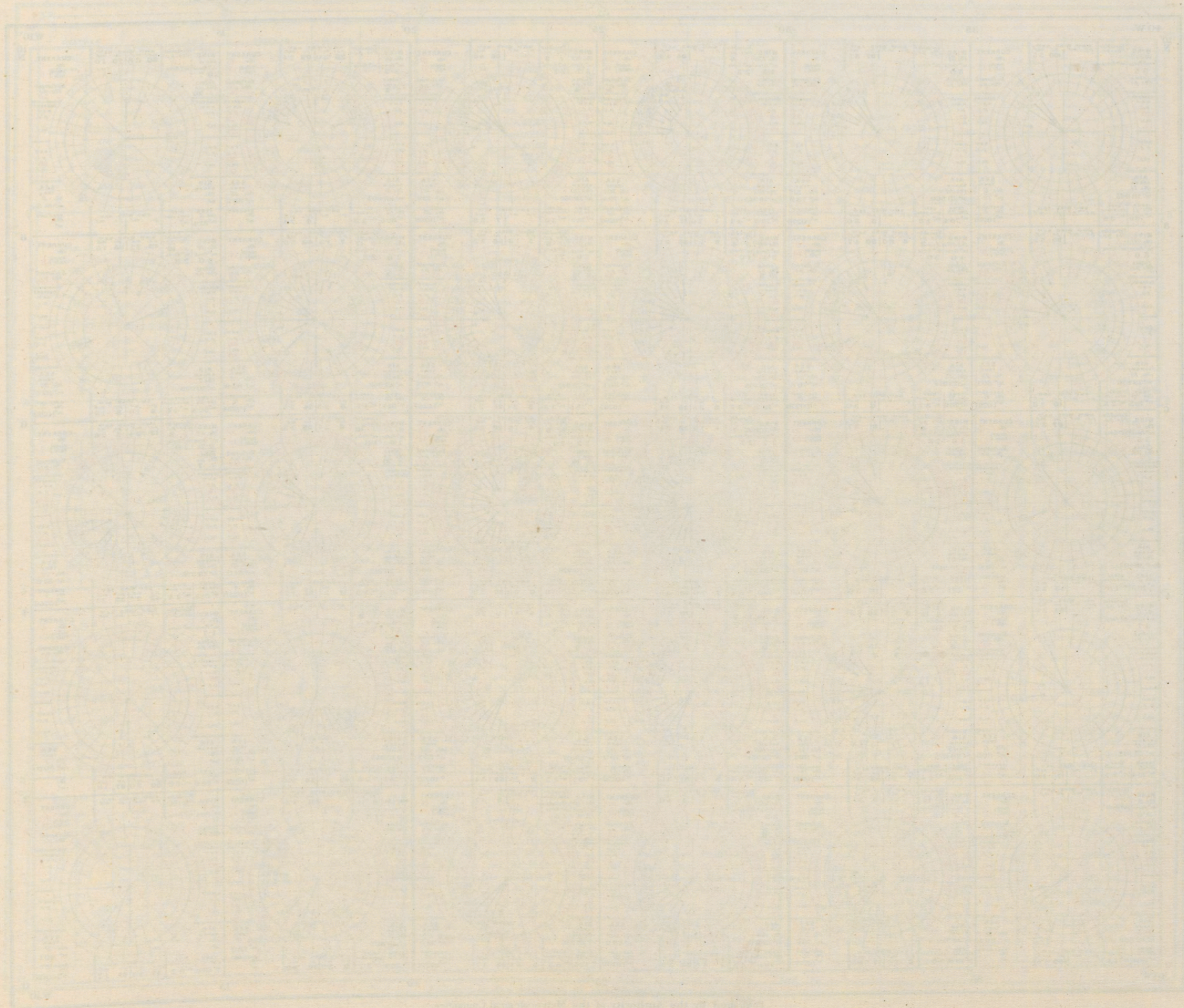
b	Blue sky.	q	Squally.
c	Clouds (detached).	r	Rain.
d	Drizzling rain.	s	Snow.
f	Foggy.	t	Thunder.
g	Gloomy.	u	Ugly threatening appearance of weather.
h	Hail.	v	Visibility. Objects at a distance unusually visible.
i	Lightning.	w	Dew.
m	Misty (hazy).		
o	Overcast.		

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

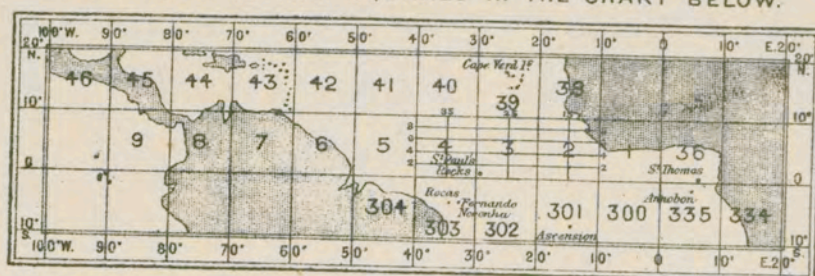
SQUARES
2, 3, 4.
NOVEMBER.

[illegible]

SQUARES
2, 3, 4.
DECEMBER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



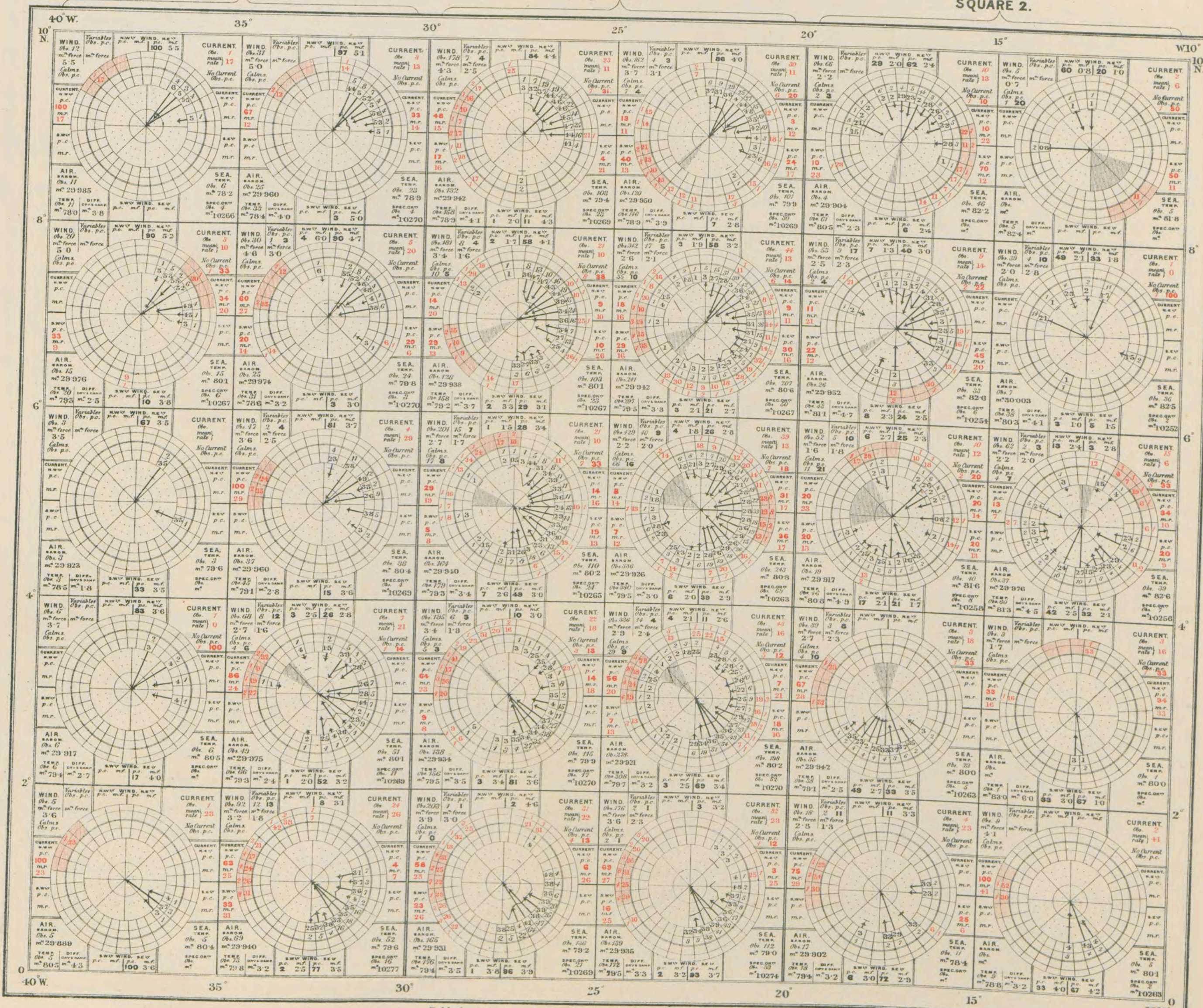
SQUARE 4.

SQUARE 3.

SQUARE 2.

DECEMBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



DECEMBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 4.

SQUARE 3.

SQUARE 2.

BEAUFORT NOTATION.
Scale of Wind Force.

Weather.

0	Calm		
1	Light air	Just sufficient to give stowage way.	
2	Light breeze	With which a well conditioned ship	1 to 2 knots
3	Gentle breeze	of-war, with all sail set, would go in	3, 4
4	Moderate breeze	smooth water and clean full, from 5,	6
5	Fresh breeze		Rovals, &c
6	Strong breeze	Which she could carry	Single reefed topsails, &c. (Gauls)
7	Moderate gale	in chase, full and by	Double reefed topsails, rib- &c
8	Fresh gale		Triple reefed topsails, &c
9	Strong gale		Close reefed top, &c. Accomps
10	Whole gale	With which she could scarcely bear close reefed	
		main-top-sail and reefed fore-sail.	
11	Storm	Which would reduce her to storm-sinny sails.	
12	Hurricane	Which no canvas could withstand.	

b	Blue sky.	g	Squally
c	Clouds (detached).	r	Rain.
d	Drizzling rain.	s	Snow
f	Foggy.	t	Thunder
g	Gloomy.	u	Ugly (threatening) appearance
h	Hail.		of weather.
l	Lightning.	v	Visibility. Objects at a distance
m	Misty (hazy).		unusually visible.
o	Overcast.	w	Dew.
p	Passing showers.		

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter is on these Charts given at the head of a column.

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

SQUARES
2, 3, 4.
DECEMBER.

[illegible]

SQUARES
301, 302, 303.
JANUARY.

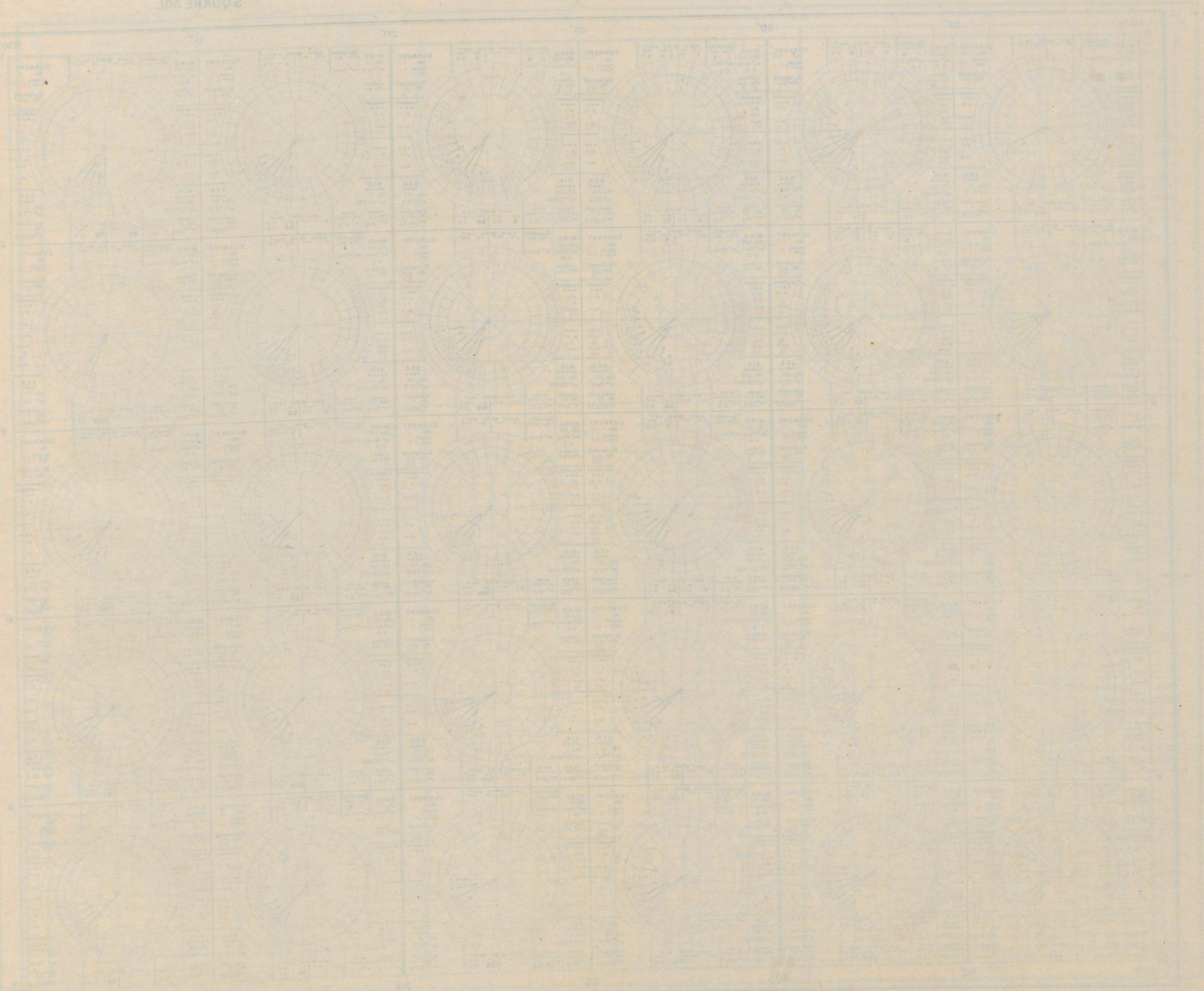
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY,
WINDS, CURRENTS.



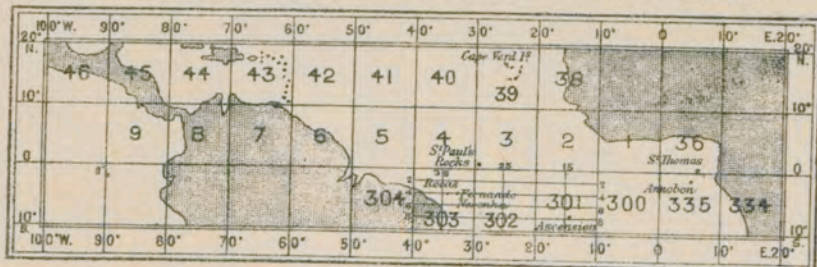
SQUARE 301

SQUARE 302

SQUARE 303



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



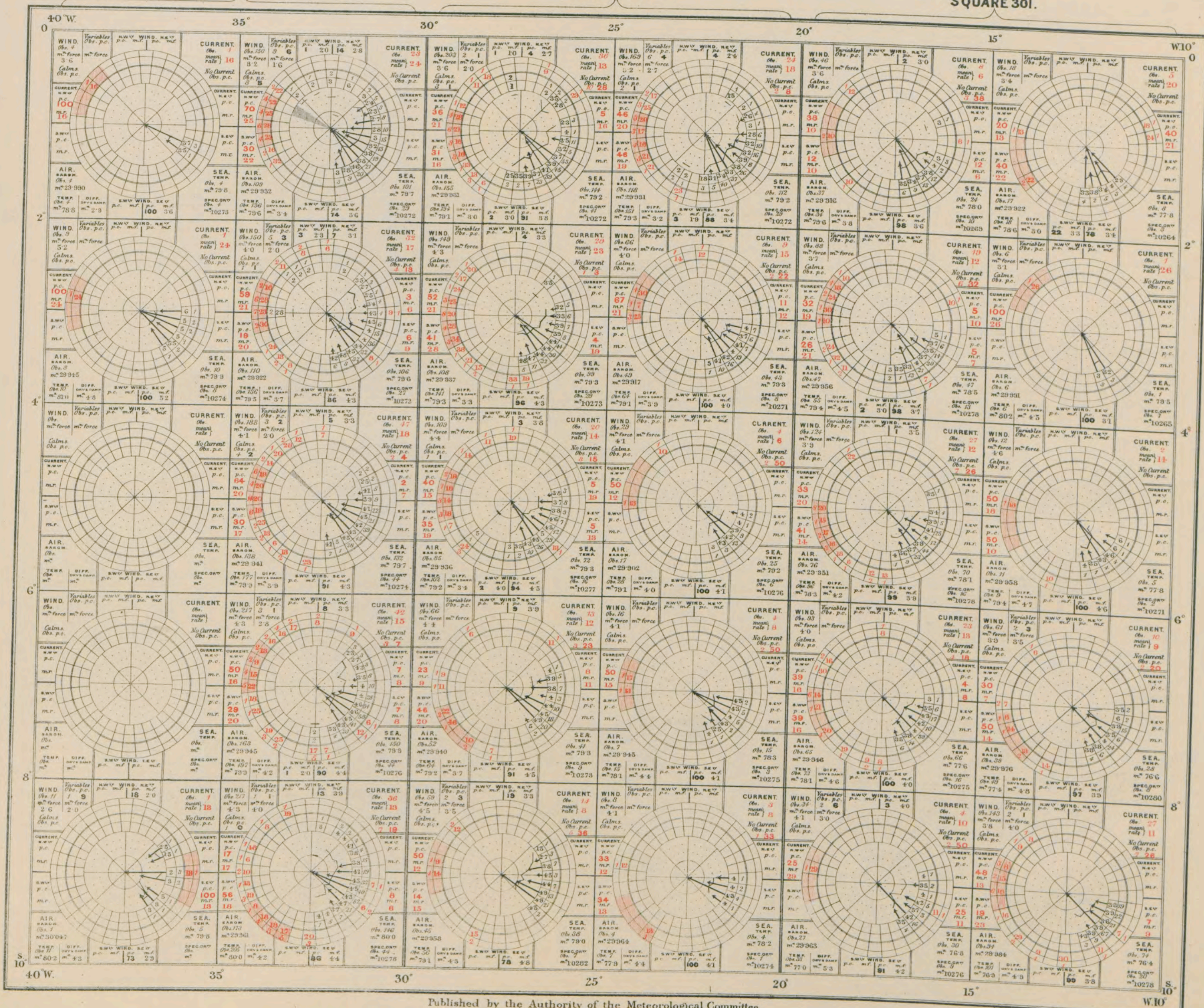
SQUARE 303.

SQUARE 302.

SQUARE 301.

JANUARY.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



JANUARY.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

Scale of Wind Force.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship of war with all sail set would go in 1 to 2 knots smooth water and clean full from 3 to 6
Roughly &c.
Single reefed topsails, &c.
Double reefed topsails, jib, &c.
Triple reefed topsails, &c.
Close reefed topsails, &c.
With which she could scarcely bear close reefed main-top-sail and reefed fore-sail.
Which would reduce her to storm-staysails.
Which no canvas could withstand.

Weather.

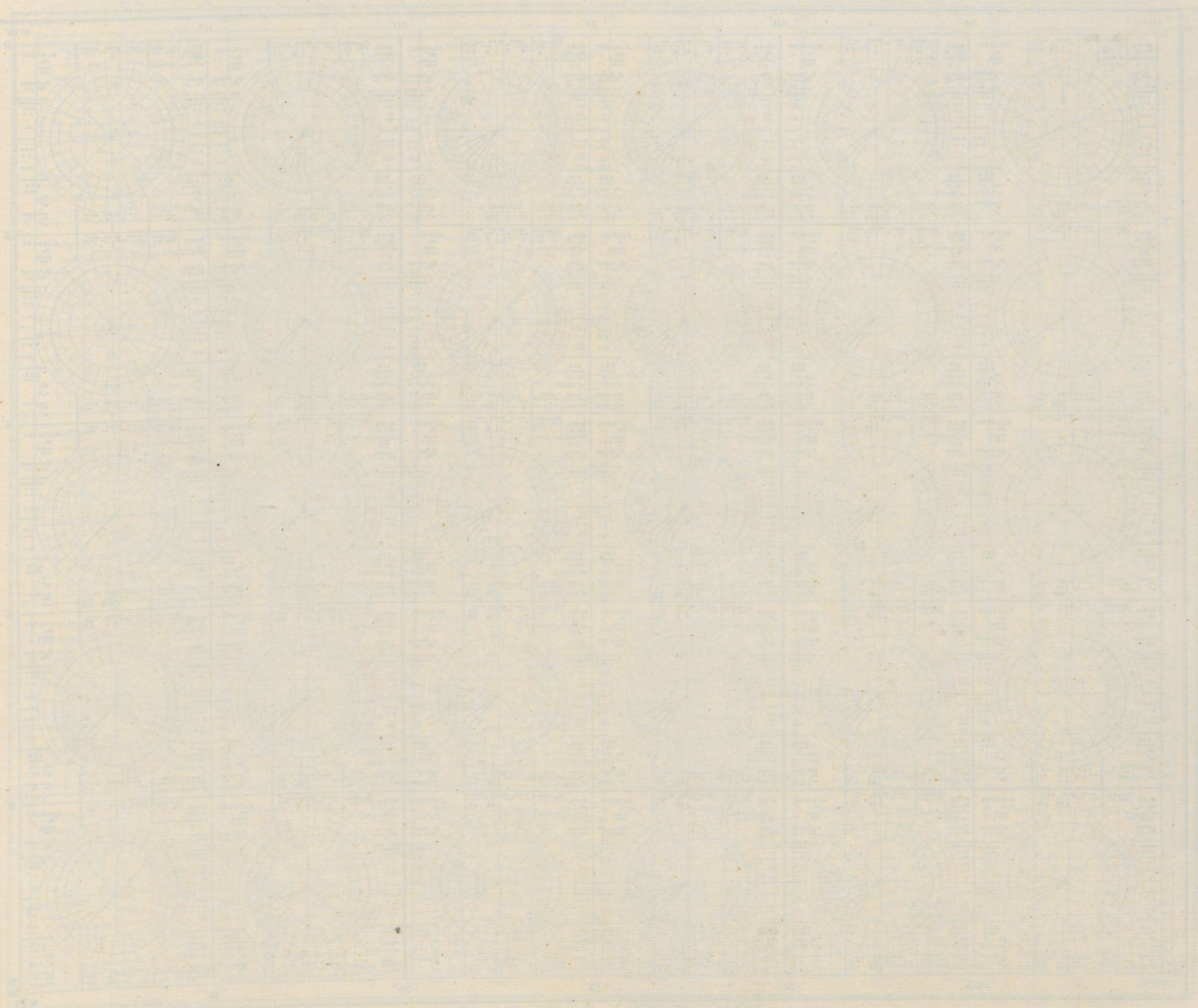
- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
l Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
q Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance of weather.
v Visibility. Objects at a distance unusually visible.
w Dew.

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

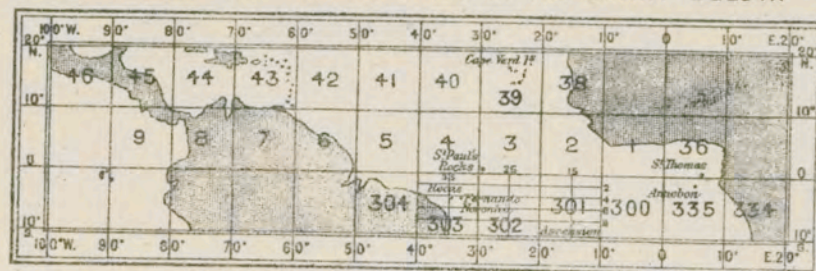
SQUARES
301, 302, 303.
JANUARY.

40°W	35°	30°	25°	20°	15°	W. 10°
0	0	0	0	0	0	0
2	2	2	2	2	2	2
4	4	4	4	4	4	4
6	6	6	6	6	6	6
8	8	8	8	8	8	8
10	10	10	10	10	10	10
12	12	12	12	12	12	12
14	14	14	14	14	14	14
16	16	16	16	16	16	16
18	18	18	18	18	18	18
20	20	20	20	20	20	20
22	22	22	22	22	22	22
24	24	24	24	24	24	24
26	26	26	26	26	26	26
28	28	28	28	28	28	28
30	30	30	30	30	30	30
32	32	32	32	32	32	32
34	34	34	34	34	34	34
36	36	36	36	36	36	36
38	38	38	38	38	38	38
40	40	40	40	40	40	40
42	42	42	42	42	42	42
44	44	44	44	44	44	44
46	46	46	46	46	46	46
48	48	48	48	48	48	48
50	50	50	50	50	50	50
52	52	52	52	52	52	52
54	54	54	54	54	54	54
56	56	56	56	56	56	56
58	58	58	58	58	58	58
60	60	60	60	60	60	60
62	62	62	62	62	62	62
64	64	64	64	64	64	64
66	66	66	66	66	66	66
68	68	68	68	68	68	68
70	70	70	70	70	70	70
72	72	72	72	72	72	72
74	74	74	74	74	74	74
76	76	76	76	76	76	76
78	78	78	78	78	78	78
80	80	80	80	80	80	80
82	82	82	82	82	82	82
84	84	84	84	84	84	84
86	86	86	86	86	86	86
88	88	88	88	88	88	88
90	90	90	90	90	90	90
92	92	92	92	92	92	92
94	94	94	94	94	94	94
96	96	96	96	96	96	96
98	98	98	98	98	98	98
100	100	100	100	100	100	100

SQUARES
301, 302, 303.
FEBRUARY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



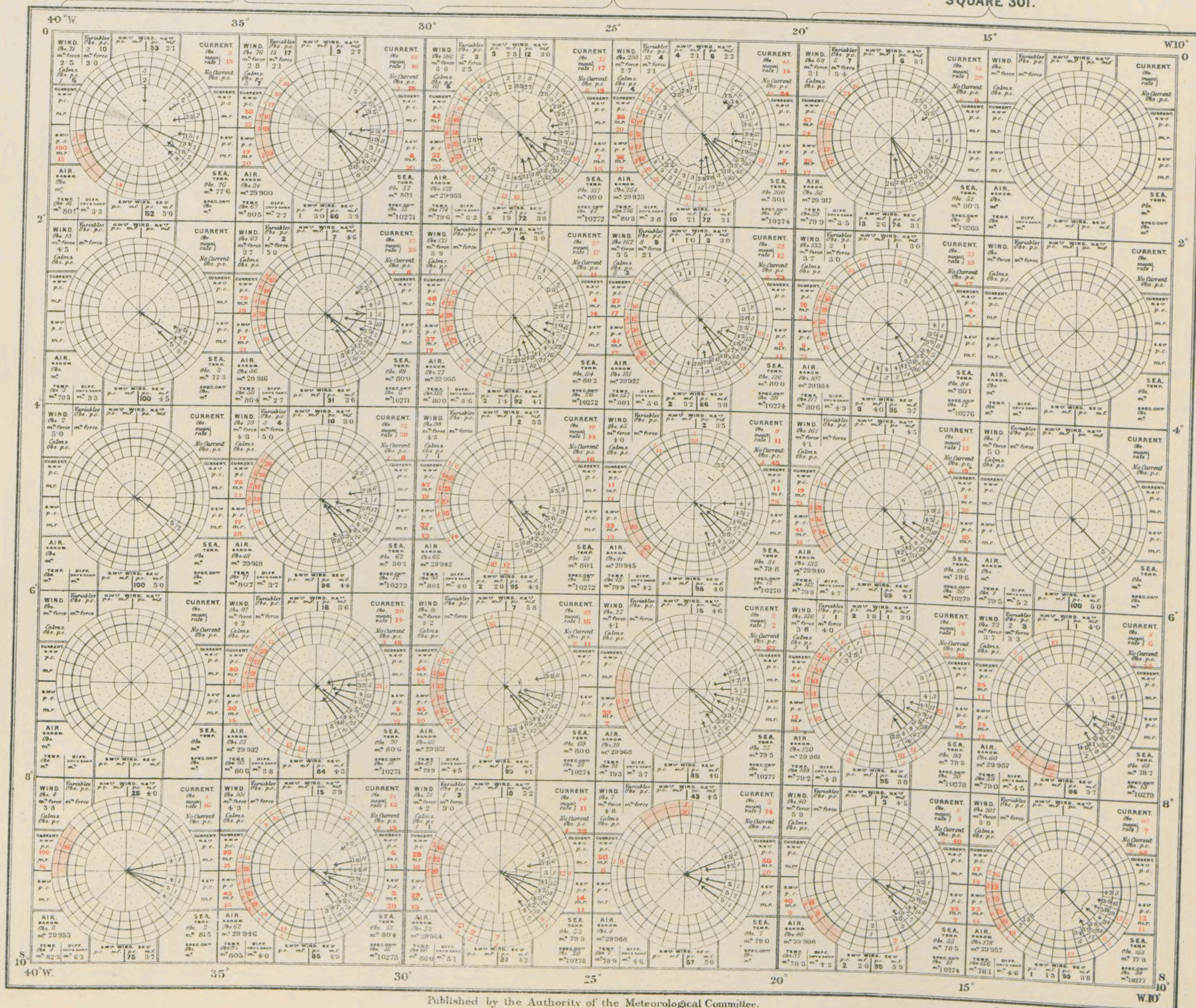
SQUARE 303.

SQUARE 302.

SQUARE 301.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

FEBRUARY.



FEBRUARY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.

Scale of Wind Force.

Weather

Scale of Wind Force.	
0 Calm	
1 Light air	Just sufficient to give steerage way.
2 Light breeze	} With which a well conditioned ship of war, with all sail set, would go in smooth water and clean full, from
3 Gentle breeze	
4 Moderate breeze	
5 Fresh breeze	
6 Strong breeze	} To which she could carry in chase, full and by
7 Moderate gale	
8 Fresh gale	
9 Strong gale	
10 Whole gale	With which she could scarcely bear the main-top-sail and masted fore-
11 Storm	Which would reduce her to storm-
12 Hurricane	Which no canvas could withstand.

<i>b</i>	Blue sky.	<i>g</i>	Squally.
<i>c</i>	Clouds (detached).	<i>r</i>	Rain.
<i>d</i>	Drizzling rain.	<i>s</i>	Snow.
<i>f</i>	Foggy.	<i>u</i>	Ugly (threatening appearance of weather.
<i>g</i>	Gloomy.	<i>v</i>	Visibility Objects at a distance unusually visible.
<i>h</i>	Hail.	<i>w</i>	Dew.
<i>l</i>	Lightning.		
<i>m</i>	Misty (hazy).		
<i>o</i>	Overcast.		
<i>p</i>	Passing showers.		

NOTE. To avoid repetition the bar (—) representing intensity usually given below each letter, is on these Charts given at the head of a column.

[illegible]

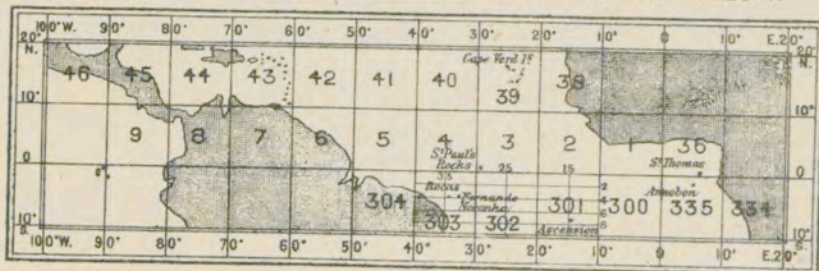
SQUARES
301, 302, 303.
MARCH.

MARCH.

WINDS, CURRENTS, & RAINFALL
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY

SQUARE 301		SQUARE 302		SQUARE 303	
<div>Grid area containing circular diagrams for weather and tide recording.</div>					

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



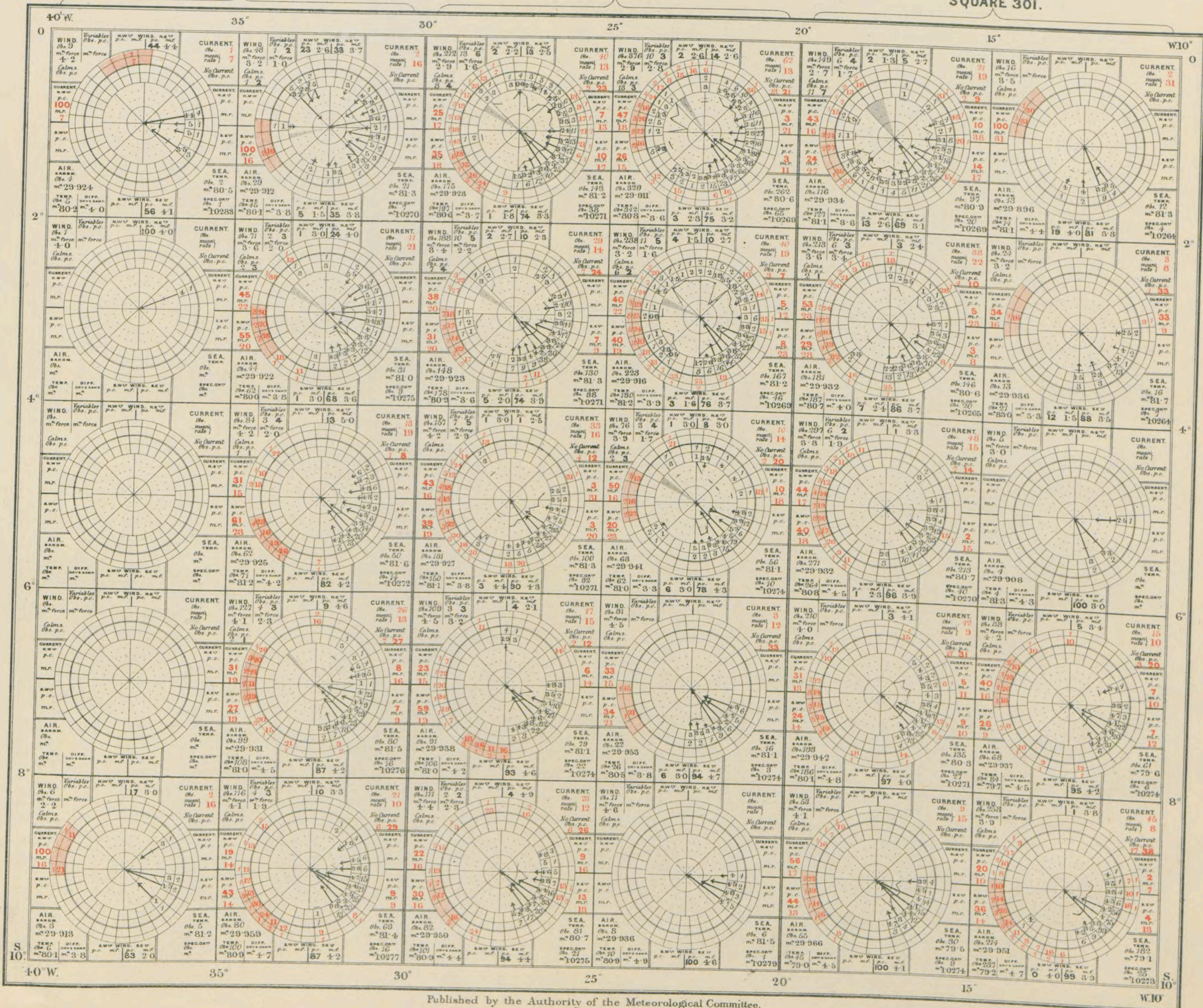
MARCH.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

SQUARE 303.

SQUARE 302.

SQUARE 301.



WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 301.

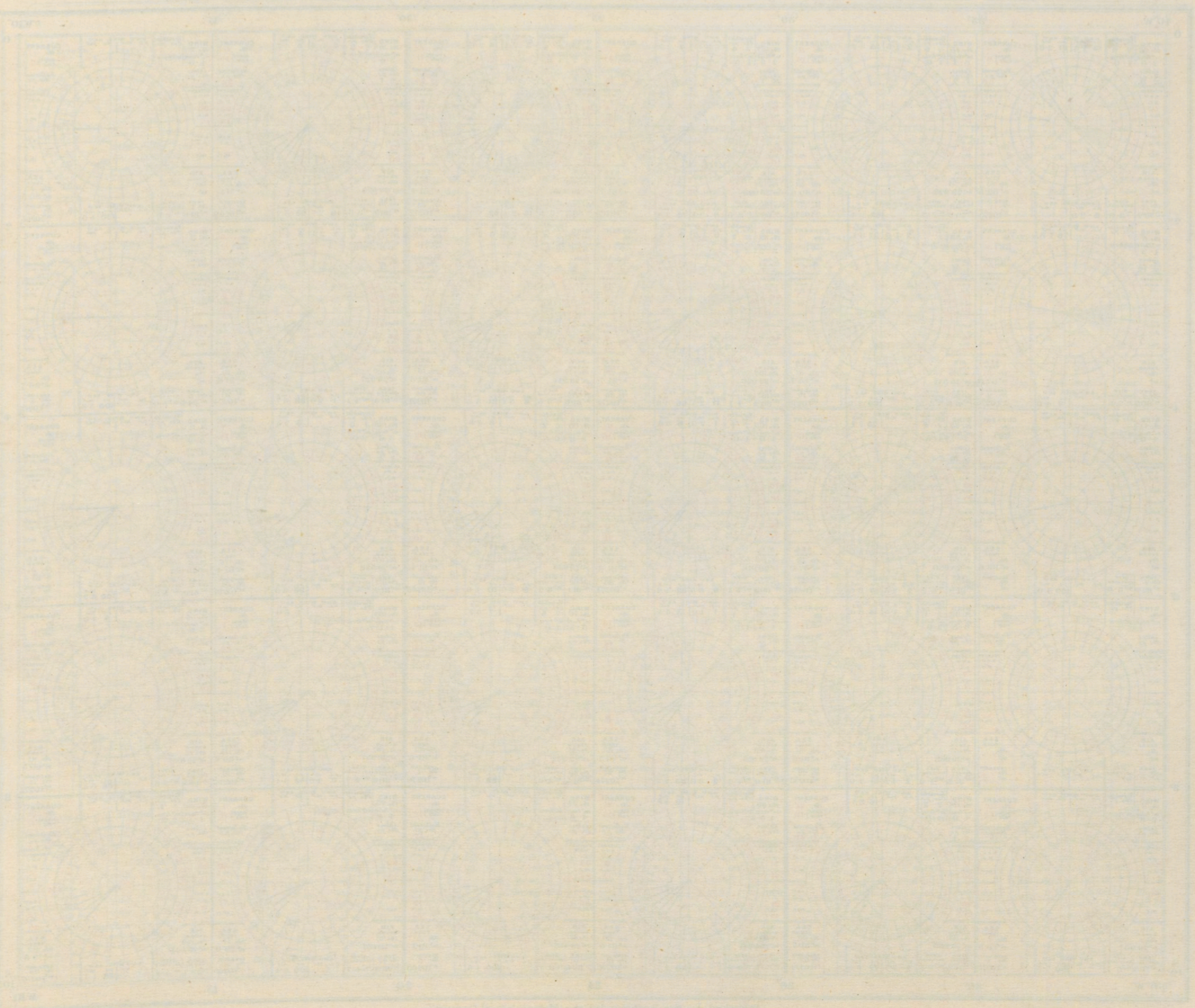
Dangerfield, lith. 22, Bedford St. Covent Garden

SQUARES
301, 302, 303.
APRIL.

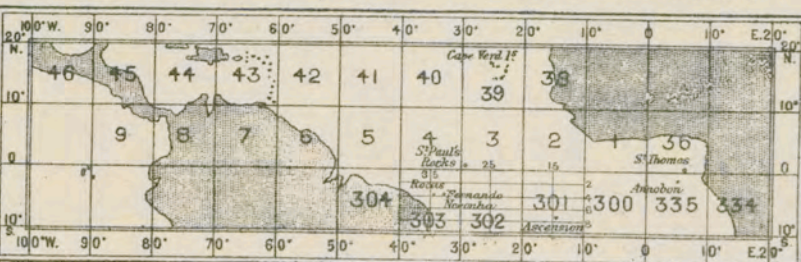


APRIL

WINDS, CURRENTS, TEMPERATURE, SPECIFIC GRAVITY, BAROMETER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



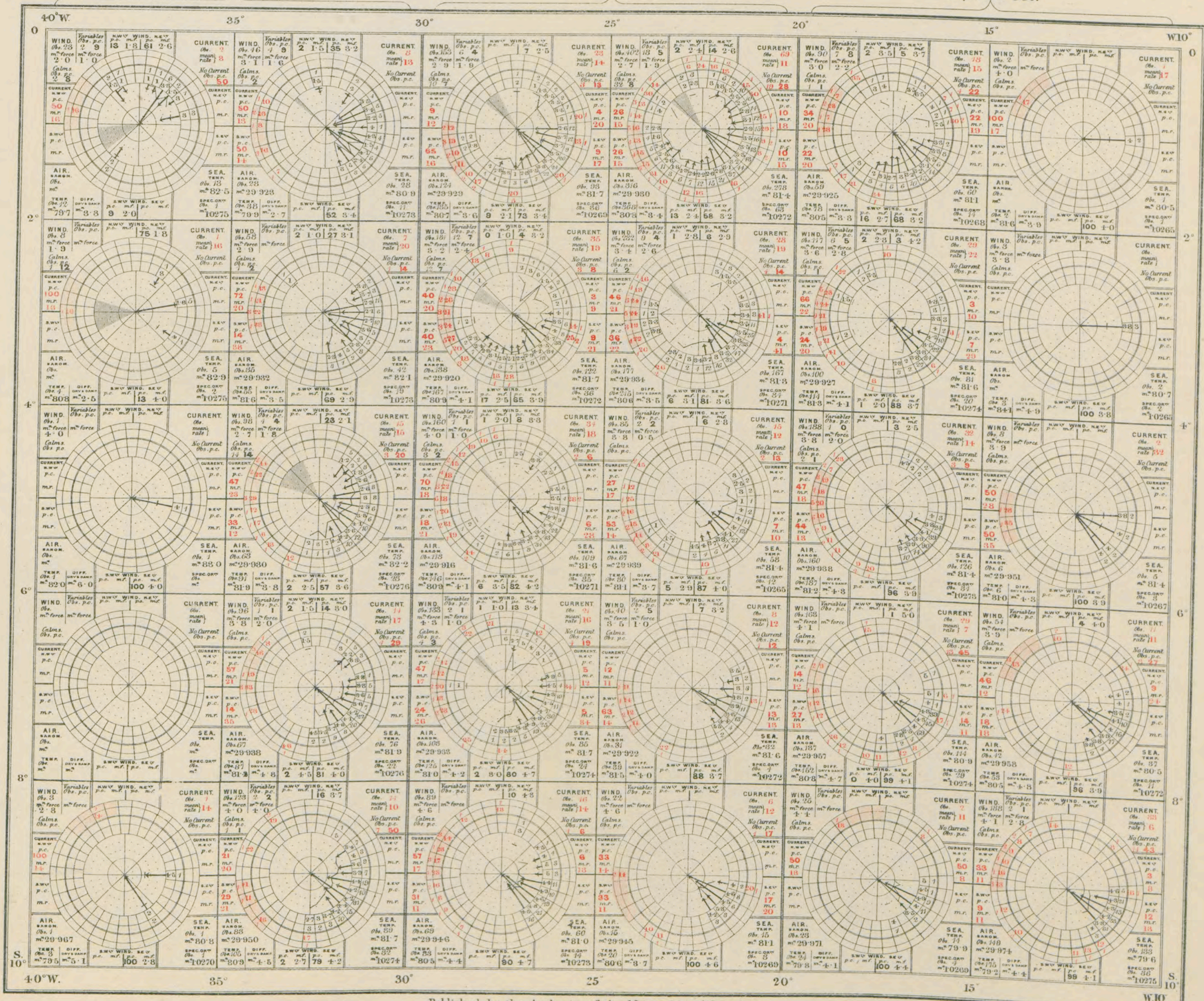
SQUARE 303.

SQUARE 302.

SQUARE 301.

APRIL.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



APRIL.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

- 0 Calm
- 1 Light air
- 2 Light breeze
- 3 Gentle breeze
- 4 Moderate breeze
- 5 Fresh breeze
- 6 Strong breeze
- 7 Moderate gale
- 8 Fresh gale
- 9 Strong gale
- 10 Whole gale
- 11 Storm
- 12 Hurricane

- Blue sky.
- Clouds (detached).
- Drizzling rain.
- Foggy.
- Gloomy.
- Hail.
- Lightning.
- Misty (hazy).
- Overcast.
- Passing showers.
- Squally.
- Rain.
- Snow.
- Thunder.
- Ugly threatening appearance of weather.
- Visibility. Objects at a distance unusually visible.
- Dew.

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

40°W	35°	30°	25°	20°	15°	W.10°
0	0	0	0	0	0	0
2	2	2	2	2	2	2
4	4	4	4	4	4	4
6	6	6	6	6	6	6
8	8	8	8	8	8	8
10	10	10	10	10	10	10
12	12	12	12	12	12	12
14	14	14	14	14	14	14
16	16	16	16	16	16	16
18	18	18	18	18	18	18
20	20	20	20	20	20	20
22	22	22	22	22	22	22
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28	28	28	28	28	28	28
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76	76	76	76	76	76	76
78	78	78	78	78	78	78
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84	84	84	84	84	84	84
86	86	86	86	86	86	86
88	88	88	88	88	88	88
90	90	90	90	90	90	90
92	92	92	92	92	92	92
94	94	94	94	94	94	94
96	96	96	96	96	96	96
98	98	98	98	98	98	98
100	100	100	100	100	100	100

SQUARES
301, 302, 303.
APRIL.

**SQUARES
301, 302, 303.
MAY.**

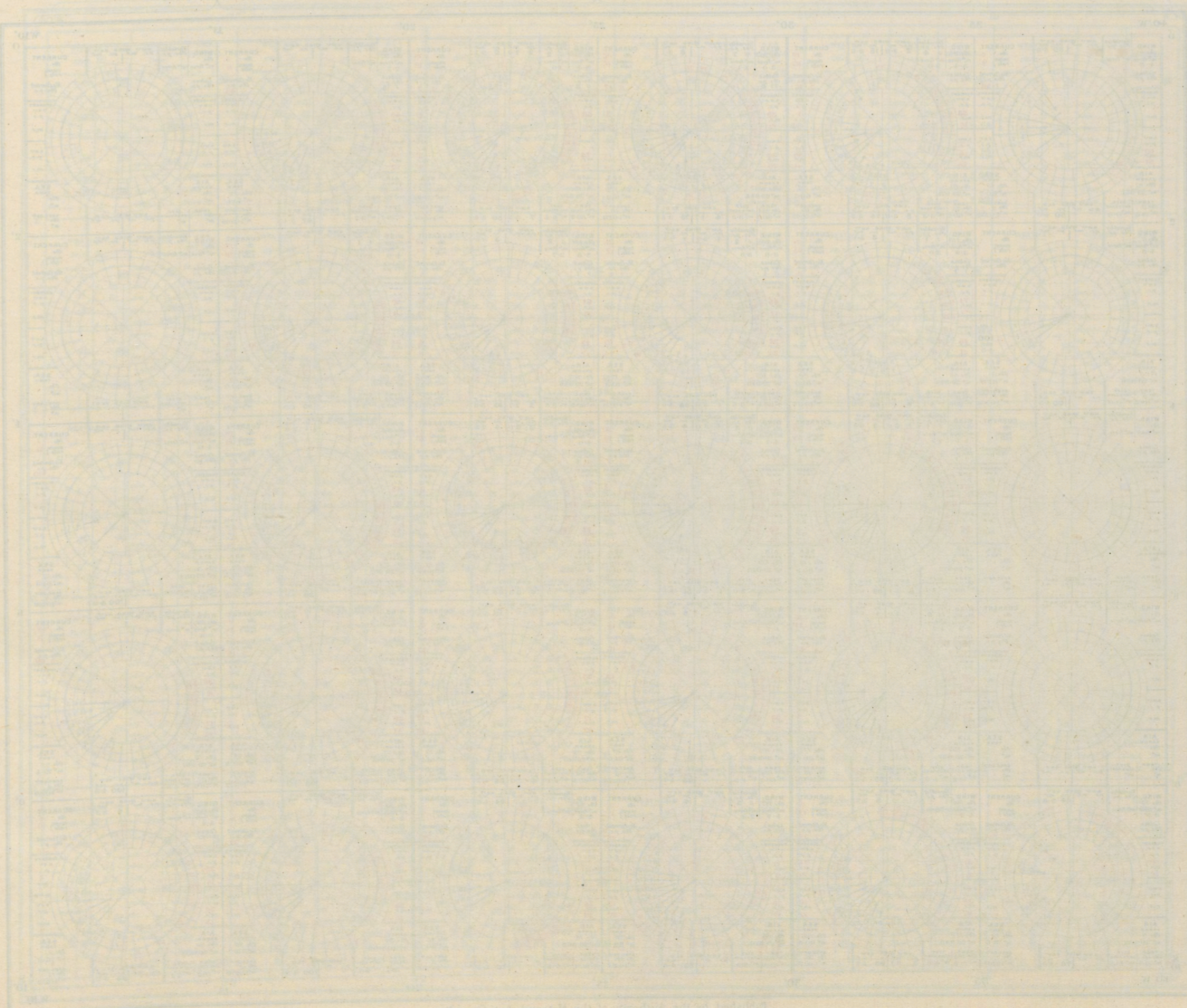


**WINDS, CURRENTS,
BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.**

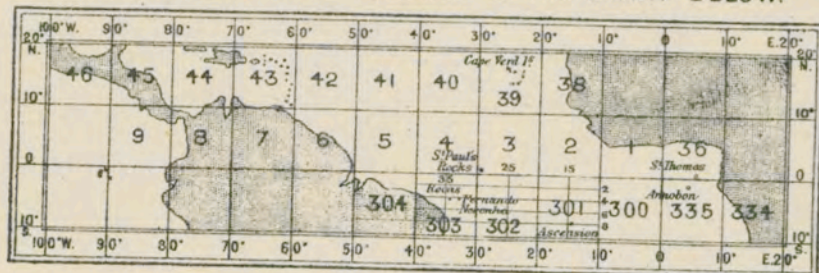
SQUARE 301

SQUARE 302

SQUARE 303



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



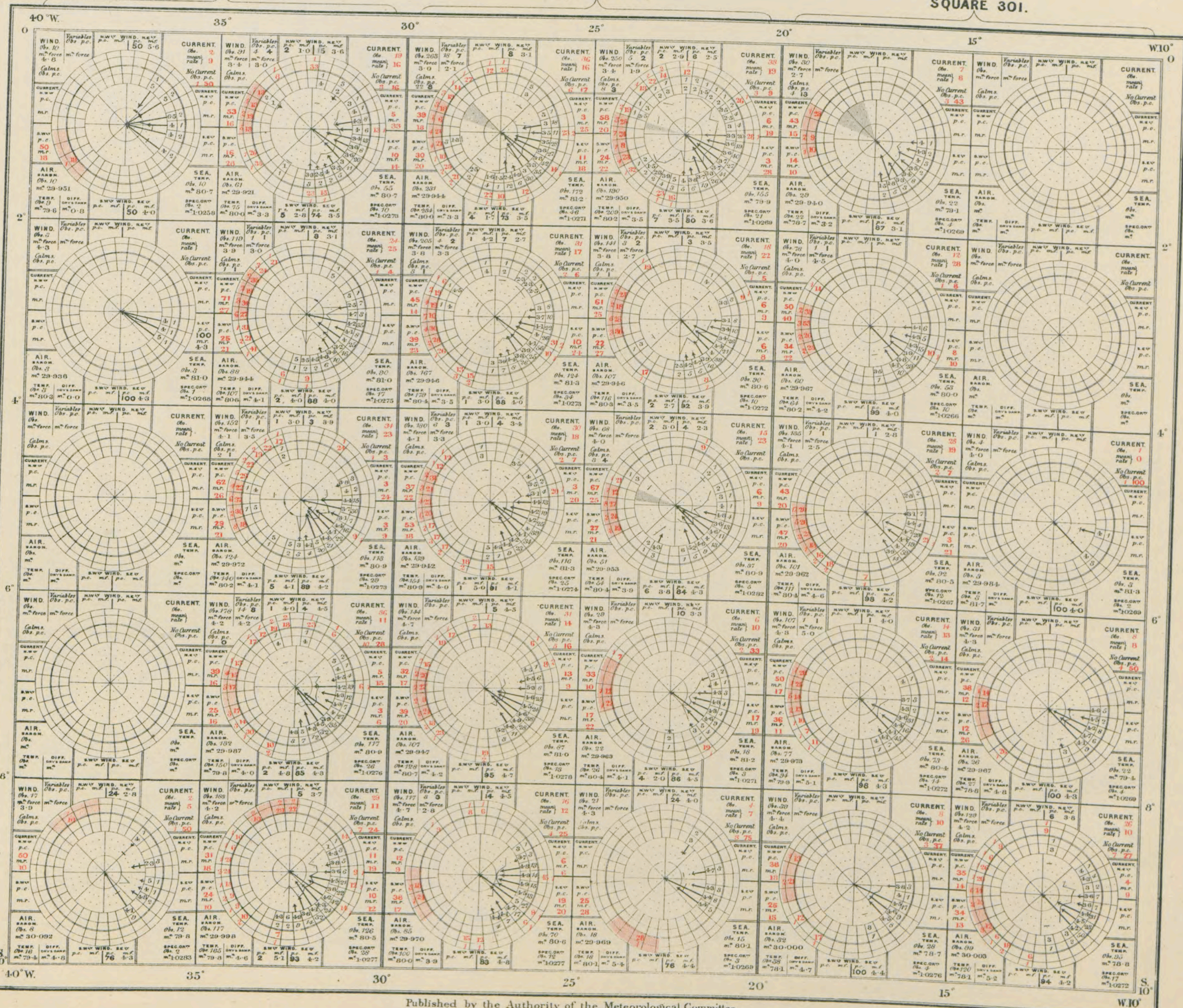
SQUARE 303.

SQUARE 302.

SQUARE 301.

MAY.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



MAY.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship (1 to 2 knots) of war with all sail set would go in 3. 4 -
smooth water and clean full from 5. 6 -
Rough &c.
Single reefed topsails & galls
Double reefed topsails, jib &c.
Triple reefed topsails, &c.
(Close reefed topsails & courses.)
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-stay-sails.
Which no canvas could withstand.

Weather.

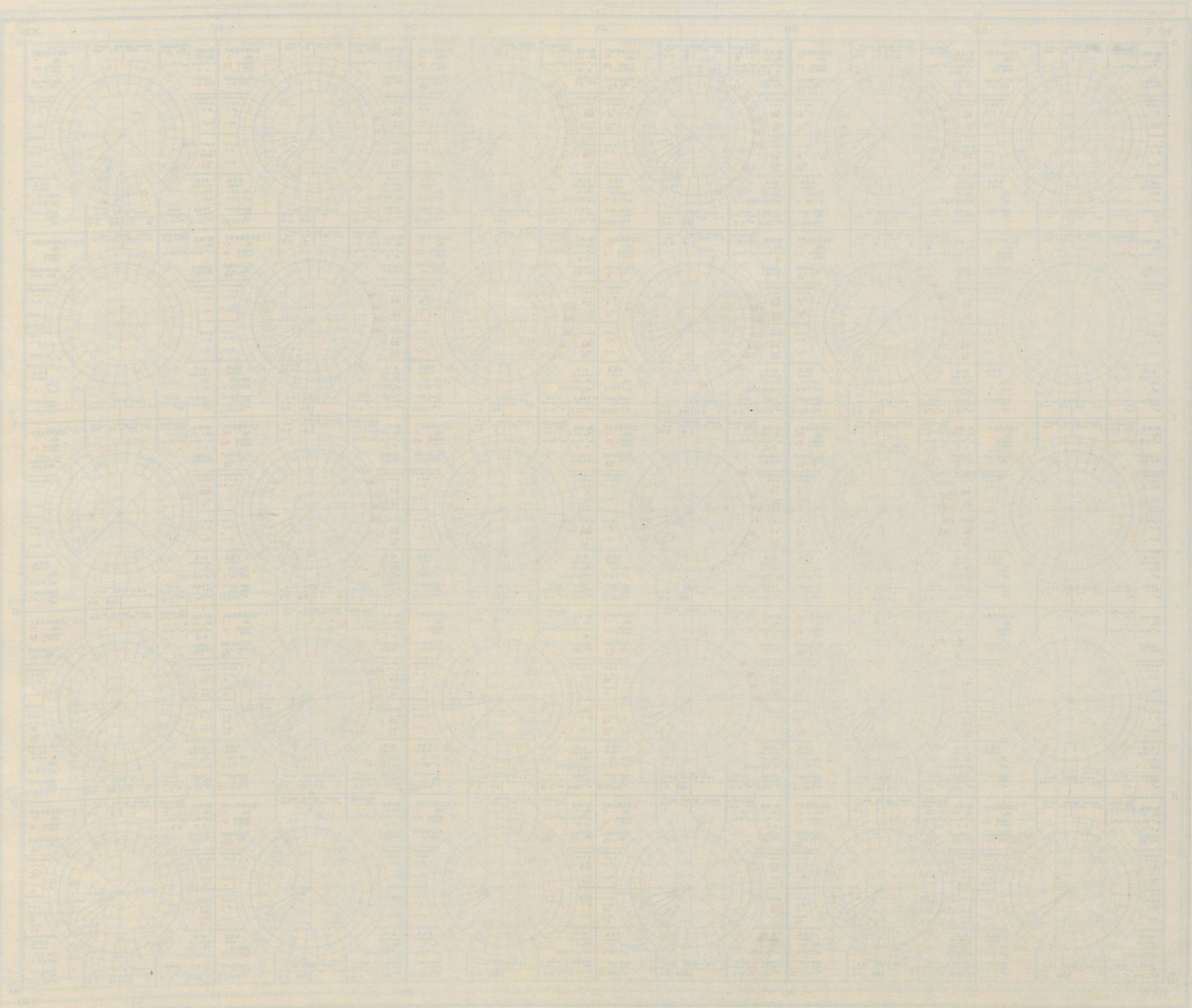
- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
l Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
- q Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance of weather.
v Visibility. Objects at a distance unusually visible.
w Dew.

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter is on these Charts given at the head of a column.

SQUARES
301, 302, 303.
MAY.

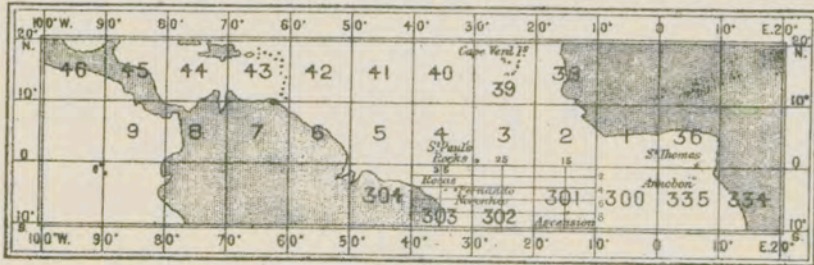
40°W.			35°			30°			25°			20°			15°			10°W.								
0			2			4			6			8			10			12								
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.		
Obs. 10			Obs. 10			Obs. 10			Obs. 10			Obs. 10			Obs. 10			Obs. 10			Obs. 10			Obs. 10		
STORMY.			SKY.			Obs. 10			STORMY.			SKY.			Obs. 10			STORMY.			SKY.			Obs. 10		
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Obs. 10			Obs. 10			Obs. 10																				

SQUARES
301, 302, 303
JUNE.



JUNE.

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

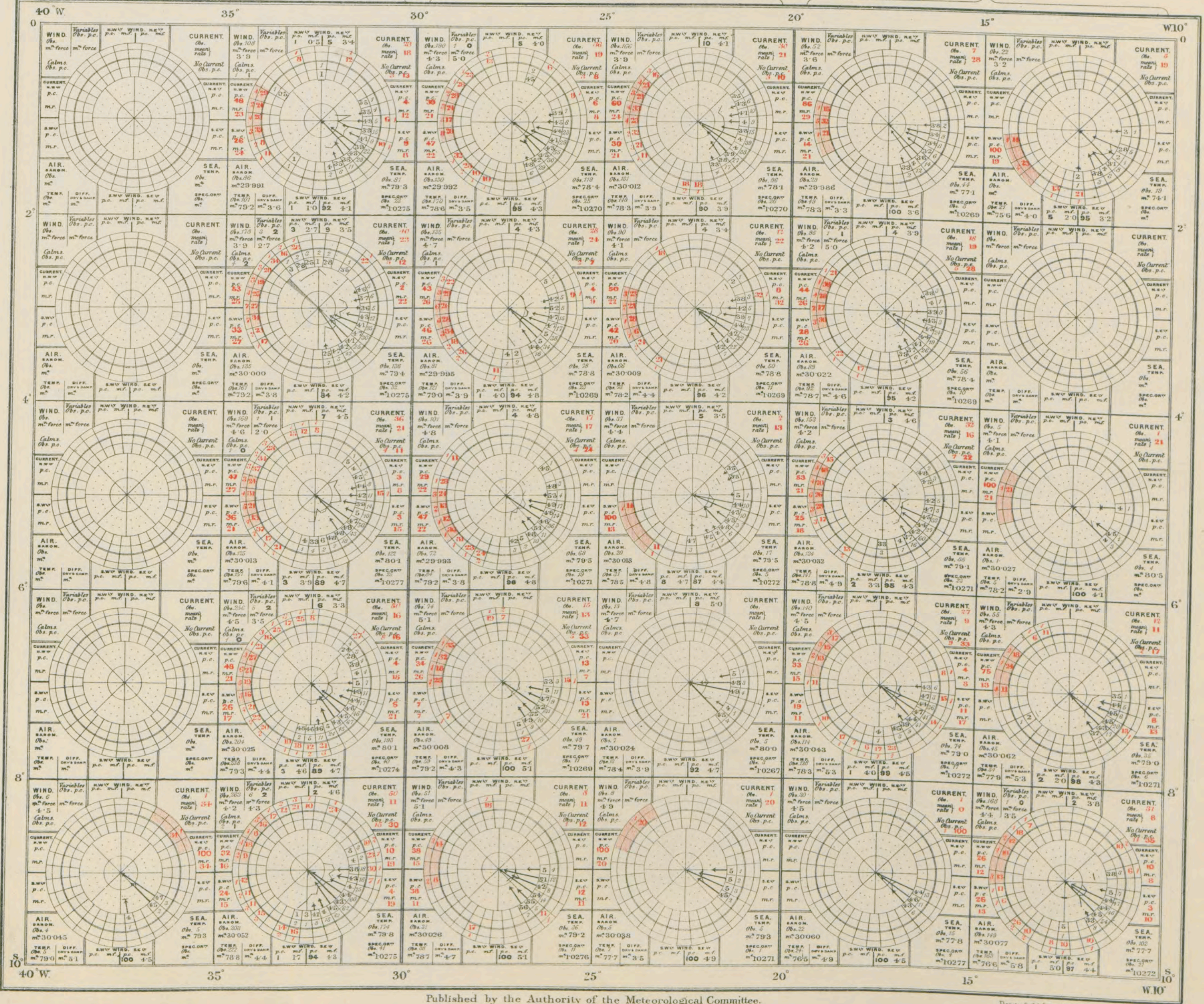


SQUARE 303.

SQUARE 302.

SQUARE 301.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



JUNE.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

- 0 Calm
- 1 Light air
- 2 Light breeze
- 3 Gentle breeze
- 4 Moderate breeze
- 5 Fresh breeze
- 6 Strong breeze
- 7 Moderate gale
- 8 Fresh gale
- 9 Strong gale
- 10 Whole gale
- 11 Storm
- 12 Hurricane

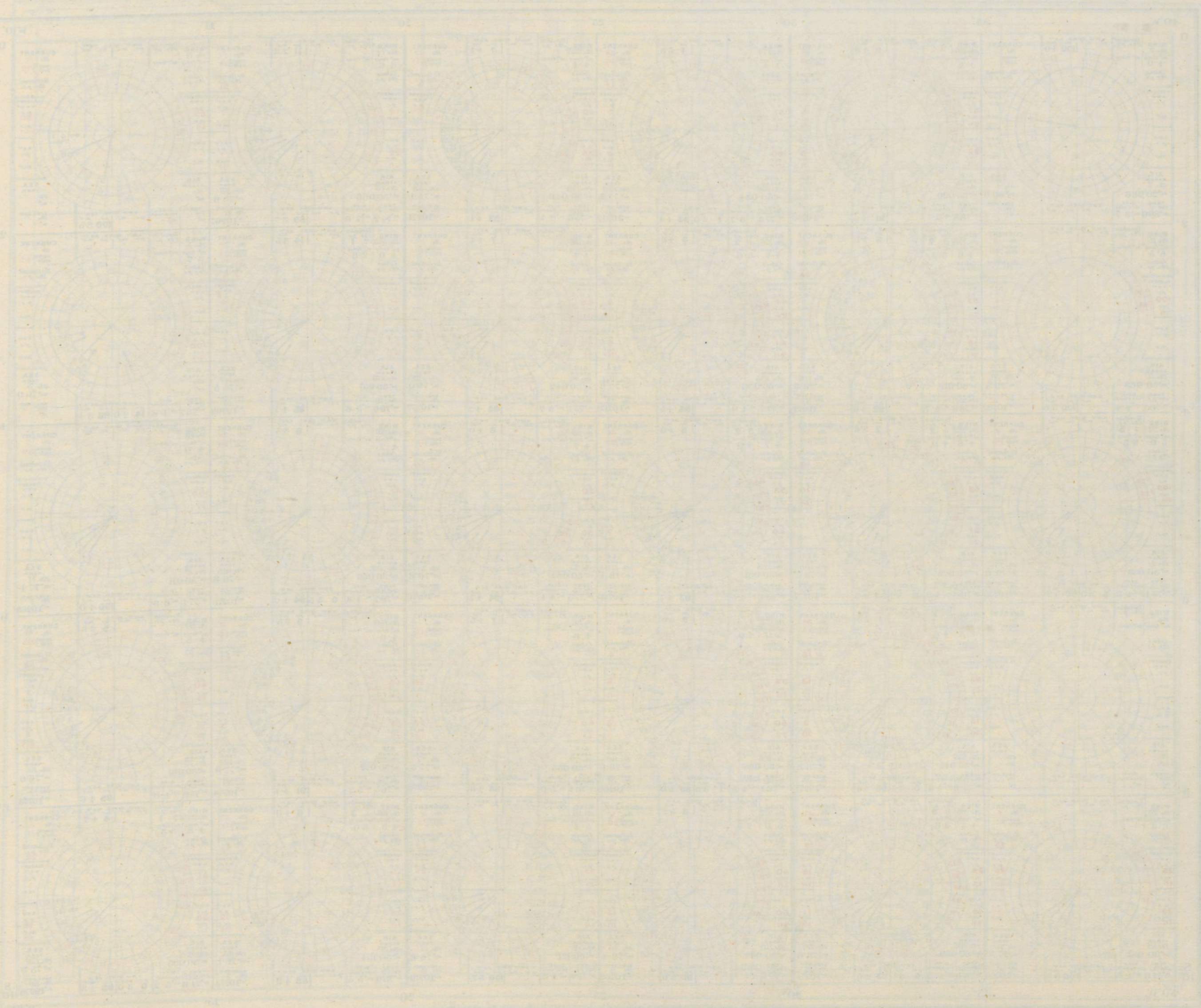
- b Blue sky.
- c Clouds (detached).
- d Drizzling rain.
- f Foggy.
- g Gloomy.
- h Hail.
- i Lightning.
- m Misty (hazy).
- o Overcast.
- p Passing showers.
- s Squally.
- r Rain.
- s Snow.
- t Thunder.
- u Ugly threatening appearance of weather.
- v Visibility. Objects at a distance unusually visible.
- w Dew.

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

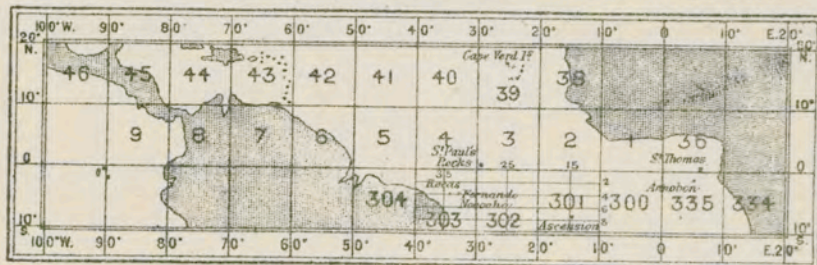
SQUARES
301, 302, 303.
JUNE.

40°W.			35°			30°			25°			20°			15°			W10°		
0			2°			4°			6°			8°			10°			12°		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. No.			Obs. No.			Obs. No.			Obs. No.			Obs. No.			Obs. No.			Obs. No.		
STORMY.			SKY.			FORM.			STORMY.			SKY.			FORM.			STORMY.		
b.			c.			d.			b.			c.			d.			b.		
e.			f.			g.			e.			f.			g.			e.		
h.			i.			j.			h.			i.			j.			h.		
k.			l.			m.			k.			l.			m.			k.		
n.			o.			p.			n.			o.			p.			n.		
q.			r.			s.			q.			r.			s.			q.		
t.			u.			v.			t.			u.			v.			t.		
w.			x.			y.			w.			x.			y.			w.		
z.			a.			b.			z.			a.			b.			z.		
c.			d.			e.			c.			d.			e.			c.		
f.			g.			h.			f.			g.			h.			f.		
i.			j.			k.			i.			j.			k.			i.		
l.			m.			n.			l.			m.			n.			l.		
o.			p.			q.			o.			p.			q.			o.		
r.			s.			t.			r.			s.			t.			r.		
u.			v.			w.			u.			v.			w.			u.		
x.			y.			z.			x.			y.			z.			x.		
a.			b.			c.			a.			b.			c.			a.		
b.			c.			d.			b.			c.			d.			b.		
c.			d.			e.			c.			d.			e.			c.		
d.			e.			f.			d.			e.			f.			d.		
e.			f.			g.			e.			f.			g.			e.		
f.			g.			h.			f.			g.			h.			f.		
g.			h.			i.			g.			h.			i.			g.		
h.			i.			j.			h.			i.			j.			h.		
i.			j.			k.			i.			j.			k.			i.		
j.			k.			l.			j.			k.			l.			j.		
k.			l.			m.			k.			l.			m.			k.		
l.			m.			n.			l.			m.			n.			l.		
m.			n.			o.			m.			n.			o.			m.		
n.			o.			p.			n.			o.			p.			n.		
o.			p.			q.			o.			p.			q.			o.		
p.			q.			r.			p.			q.			r.			p.		
q.			r.			s.			q.			r.			s.			q.		
r.			s.			t.			r.			s.			t.			r.		
s.			t.			u.			s.			t.			u.			s.		
t.			u.			v.			t.			u.			v.			t.		
u.			v.			w.			u.			v.			w.			u.		
v.			w.			x.			v.			w.			x.			v.		
w.			x.			y.			w.			x.			y.			w.		
x.			y.			z.			x.			y.			z.			x.		
y.			z.			a.			y.			z.			a.			y.		
z.			a.			b.			z.			a.			b.			z.		
a.			b.			c.			a.			b.			c.			a.		
b.			c.			d.			b.			c.			d.			b.		
c.			d.			e.			c.			d.			e.			c.		
d.			e.			f.			d.			e.			f.			d.		
e.			f.			g.			e.			f.			g.			e.		
f.			g.			h.			f.			g.			h.			f.		
g.			h.			i.			g.			h.			i.			g.		
h.			i.			j.			h.			i.			j.			h.		
i.			j.			k.			i.			j.			k.			i.		
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n.			o.			p.			n.			o.			p.			n.		
o.			p.			q.			o.			p.			q.			o.		
p.			q.			r.			p.			q.			r.			p.		
q.			r.			s.			q.			r.			s.			q.		
r.			s.			t.			r.			s.			t.			r.		
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y.			z.			a.			y.			z.			a.			y.		
z.			a.			b.			z.			a.			b.			z.		
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b.			c.			d.			b.			c.			d.			b.		
c.			d.			e.			c.			d.			e.			c.		
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l.			m.			n.			l.			m.			n.			l.		
m.			n.			o.			m.			n.			o.			m.		
n.			o.			p.			n.			o.			p.			n.		
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p.			q.			r.			p.			q.			r.			p.		
q.			r.			s.			q.			r.			s.			q.		
r.			s.			t.			r.			s.			t.			r.		
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t.			u.			v.			t.			u.			v.			t.		
u.			v.			w.			u.			v.			w.			u.		
v.			w.			x.			v.			w.			x.			v.		
w.			x.			y.			w.			x.			y.			w.		
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n.			o.			p.			n.			o.			p.			n.		
o.			p.			q.			o.			p.			q.			o.		
p.			q.			r.			p.			q.			r.			p.		
q.			r.			s.			q.			r.			s.			q.		
r.			s.			t.			r.			s.			t.			r.		
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v.			w.			x.			v.			w.			x.			v.		
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z.			a.			b.			z.			a.			b.			z.		
a.			b.			c.			a.			b.			c.			a.		
b.			c.			d.			b.			c.			d.			b.		
c.			d.			e.			c.			d.			e.			c.		
d.			e.			f.			d.			e.			f.			d.		
e.			f.			g.			e.			f.			g.			e.		
f.			g.			h.			f.			g.			h.			f		

SQUARES
301, 302, 303.
JULY.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



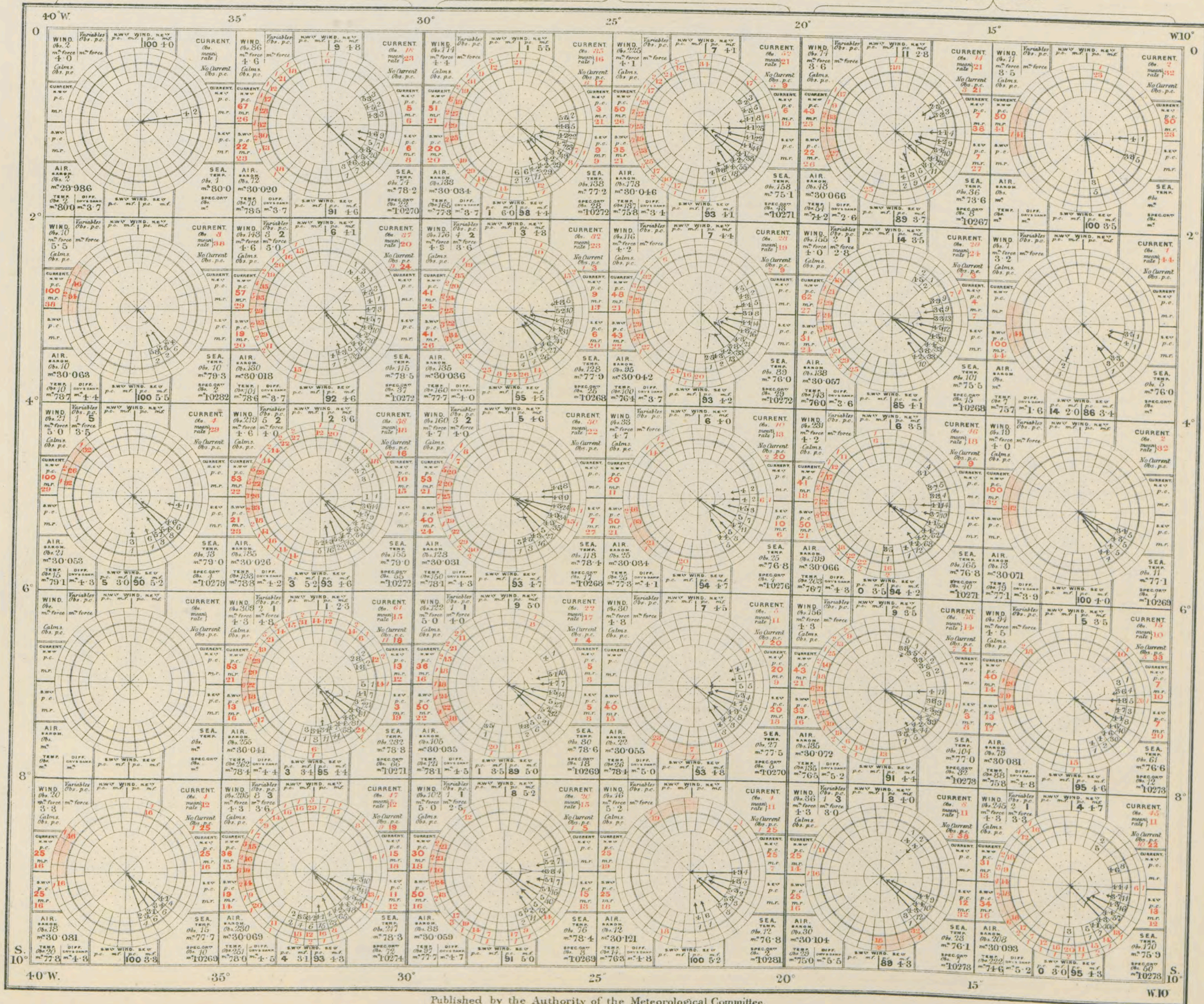
SQUARE 303.

SQUARE 302.

SQUARE 301.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.

JULY.



JULY.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

SQUARES
301, 302, 303.
JULY.

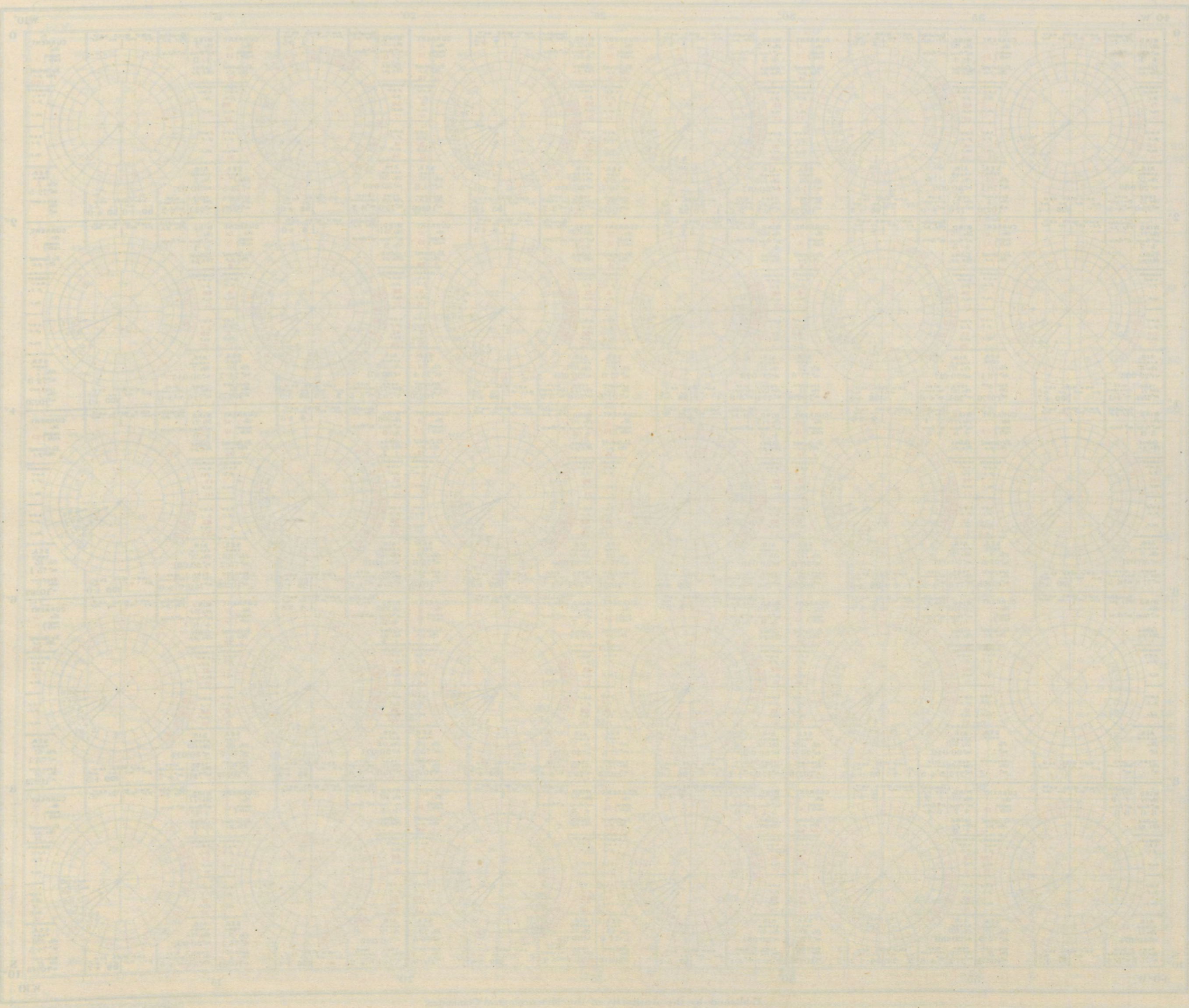
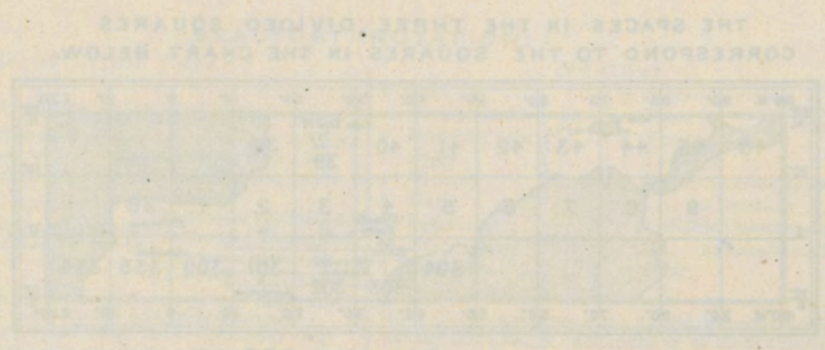
BEAUFORT NOTATION.
Scale of Wind Force.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give storage way.
With which a well conditioned ship (1 to 2 knots of way with all sail set, would go in 3 to 4 smooth water and clean full from 5 to 6.
To which she could carry single reefed topsails, double reefed topsails, and triple reefed topsails, &c.
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-stay sails.
Which no canvas could withstand.

- Weather.
- b Blue sky
c Clouds (detached)
d Drizzling rain
f Foggy
g Gloomy
h Hail
i Lightning
m Misty (hazy)
o Overcast
p Passing showers.
- g Squally
r Rain
s Snow
t Thunder
u Ugly threatening appearance of weather
v Visibility. Objects at a distance unusually visible.
w Dew.
- NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter is on these Charts given at the head of a column.

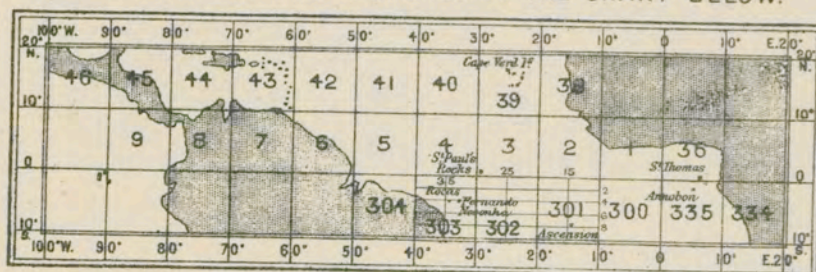
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SQUARES
301, 302, 303.
AUGUST.



AUGUST.

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.

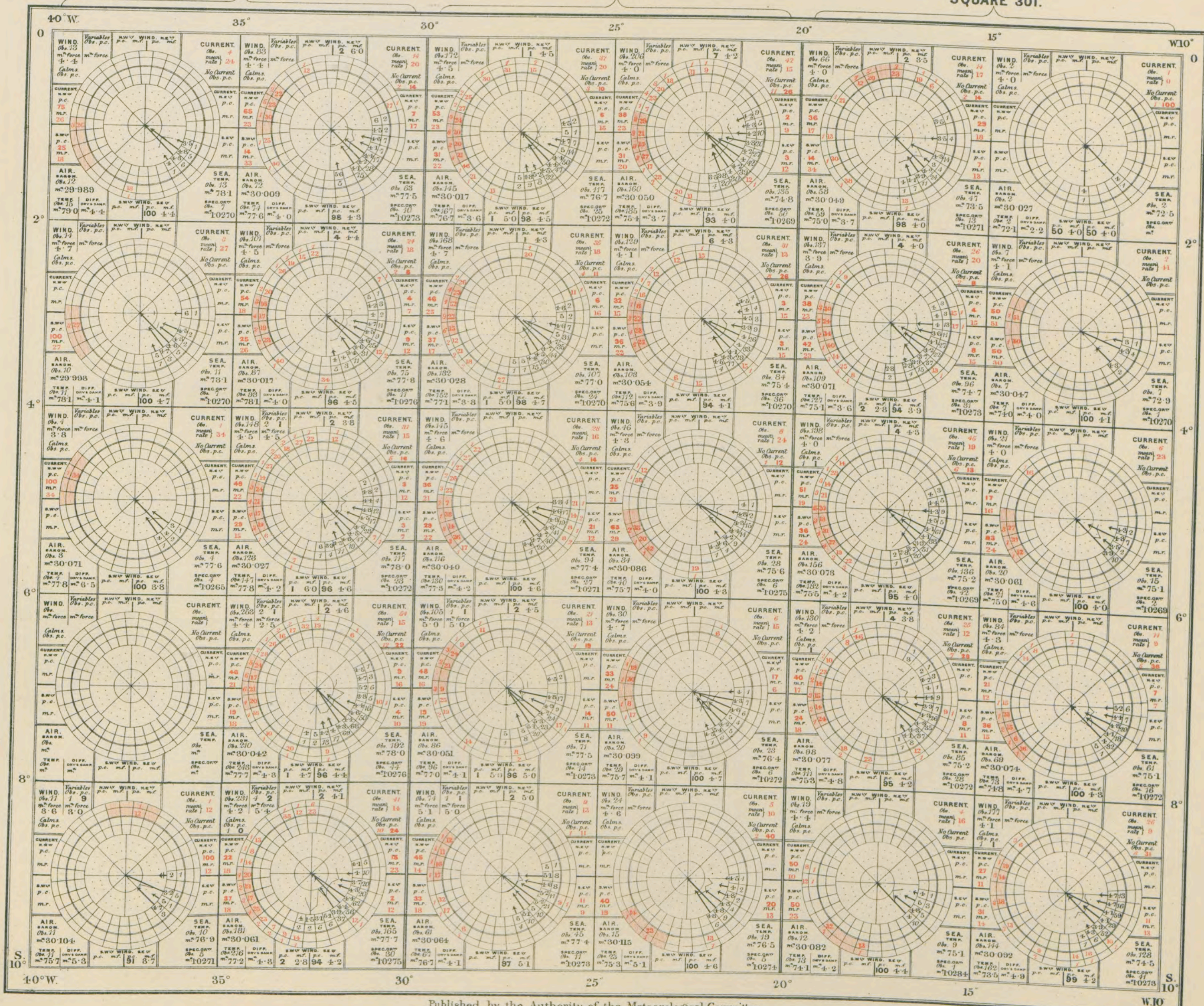


SQUARE 303.

SQUARE 302.

SQUARE 301.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



AUGUST.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

Weather.

1) Calm	State of Wind Force.	
2) Light air	Just sufficient to give steerage way.	
3) Breeze	} With which a well conditioned ship 1 to 2 knots of war, with all sail set would go in 3 4 smooth water and clean full in 5 6 4	
4) Moderate breeze		
5) Fresh breeze		Royal's lee
6) Strong breeze		Single reefed top'sail & 1/2 Gsails
7) Moderate gale	} To which she could carry in chase full and by	Double reefed topsails, 1/2 Gsails
8) Fresh gale		Triple reefed topsails, &c
9) Strong gale		Close reefed top'sails &c
10) Whole gale	With which she could scarcely bear close reefed main-top sail and reefed foresail!	
11) Storm	Which would reduce her to storm-stay-sails.	
12) Hurricane	Which no canvas could withstand.	

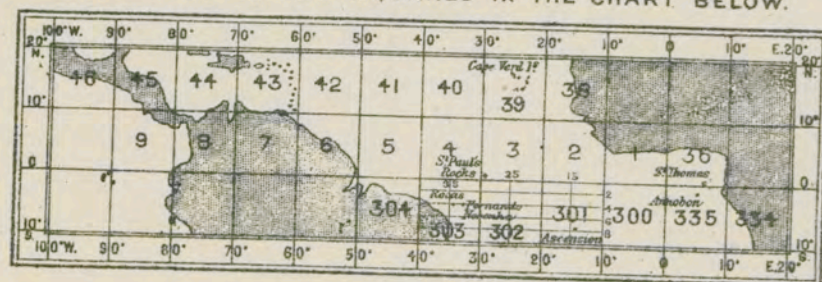
Weather.	
b Blue sky.	q Squally.
c Clouds (detached).	r Rain.
d Drizzling rain.	s Snow.
f Foggy.	t Thunder.
g Gloomy.	u Ugly (threatening appearance of weather.
h Hail.	v Visibility. Objects at a distance unusually visible.
i Lightning.	w Dew.
m Misty (hazy).	
n Overcast.	
p Passing showers.	

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter is on these Charts given at the head of a column.

SQUARES
301, 302, 303.
AUGUST.

[illegible]

THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



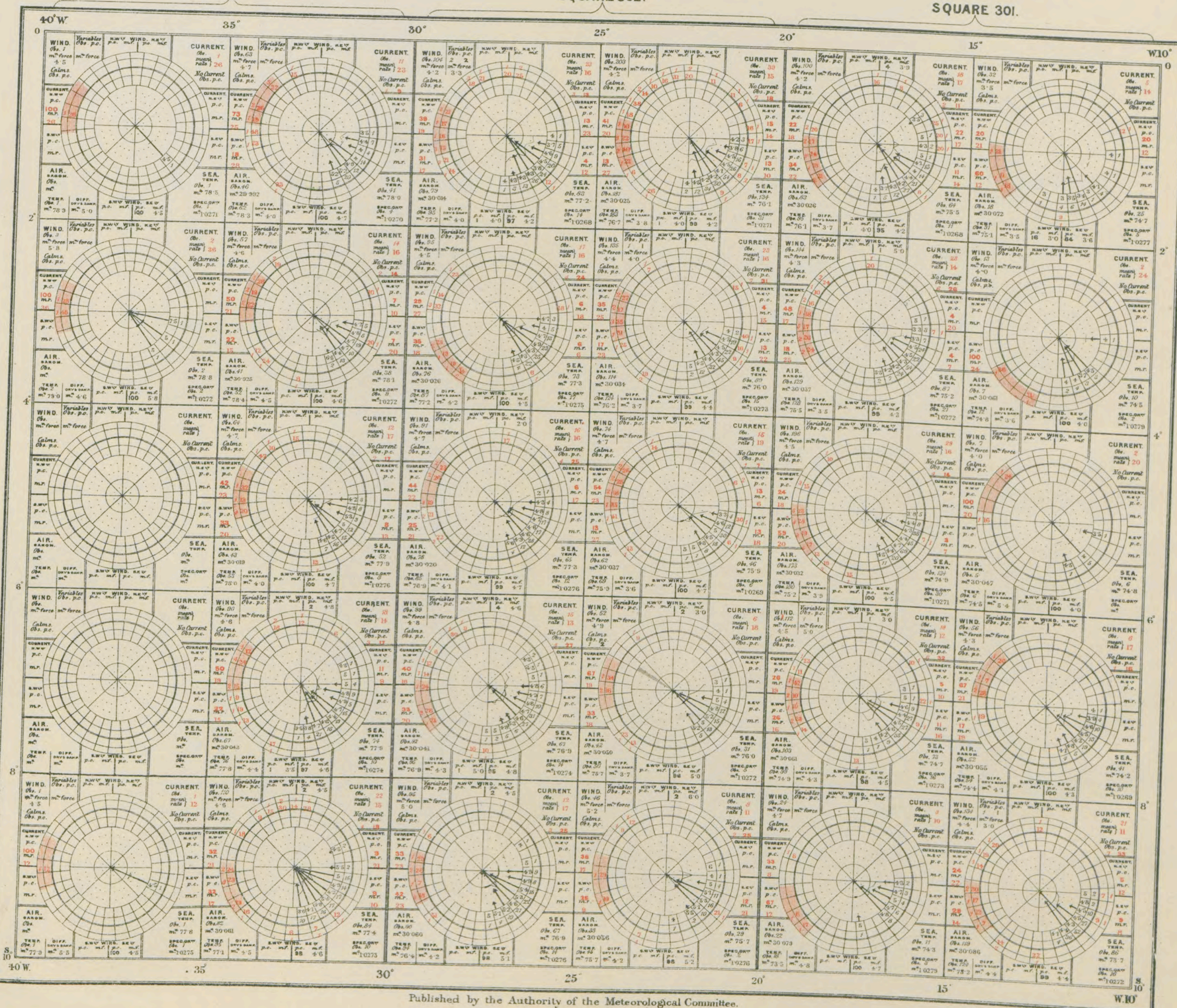
SQUARE 303.

SQUARE 302.

SQUARE 301.

SEPTEMBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



SEPTEMBER.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots of way with all sail set would go in 3. 4 smooth water and clean full from 5. 6
Rough sea.
To which she could carry double reefed topsails, jib &c in chase full and by
Triple reefed topsails, &c.
Close reefed topsails & courses.
With which she could scarcely bear close reefed main-top-sail and reefed foresail.
Which would reduce her to storm-sail-sails.
Which no canvas could withstand.

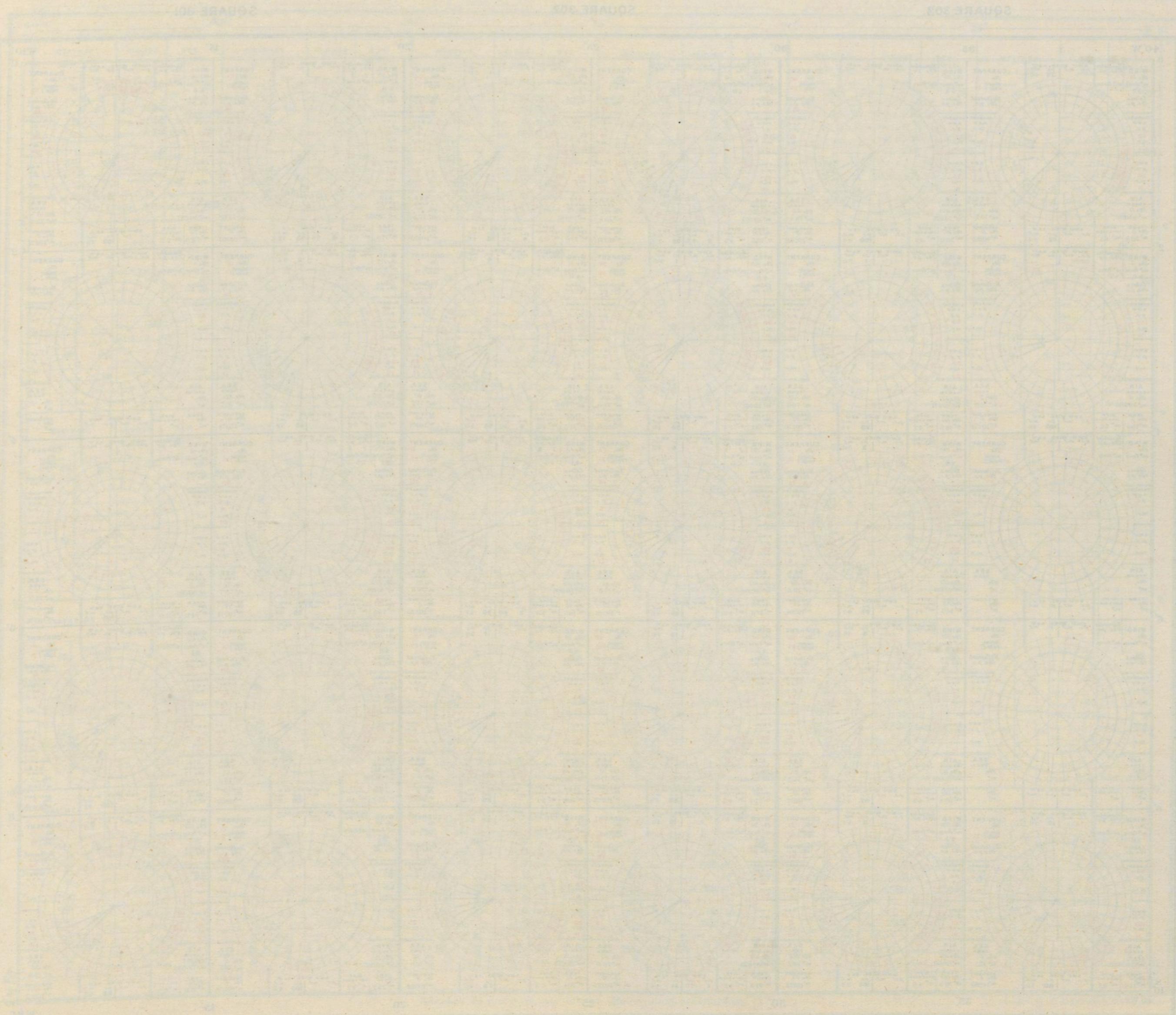
Weather.

- Blue sky.
Clouds (detached).
Drizzling rain.
Snow.
Thunder.
Ugly (threatening appearance of weather).
Misty (hazy).
Overcast.
Passing showers.
Squally.
Rain.
Snow.
Thunder.
Ugly (threatening appearance of weather).
Misty (hazy).
Overcast.
Passing showers.
- NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter is on these Charts given at the head of a column.

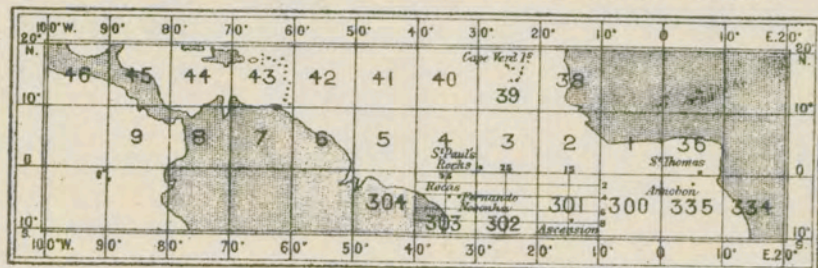
SQUARES
301, 302, 303.
SEPTEMBER.

40°W.	35°	30°	25°	20°	15°	W10°
0	0	0	0	0	0	0
2°	2°	2°	2°	2°	2°	2°
4°	4°	4°	4°	4°	4°	4°
6°	6°	6°	6°	6°	6°	6°
8°	8°	8°	8°	8°	8°	8°
10°	10°	10°	10°	10°	10°	10°
40°W.	35°	30°	25°	20°	15°	W10°

SQUARES
301, 302, 303.
OCTOBER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



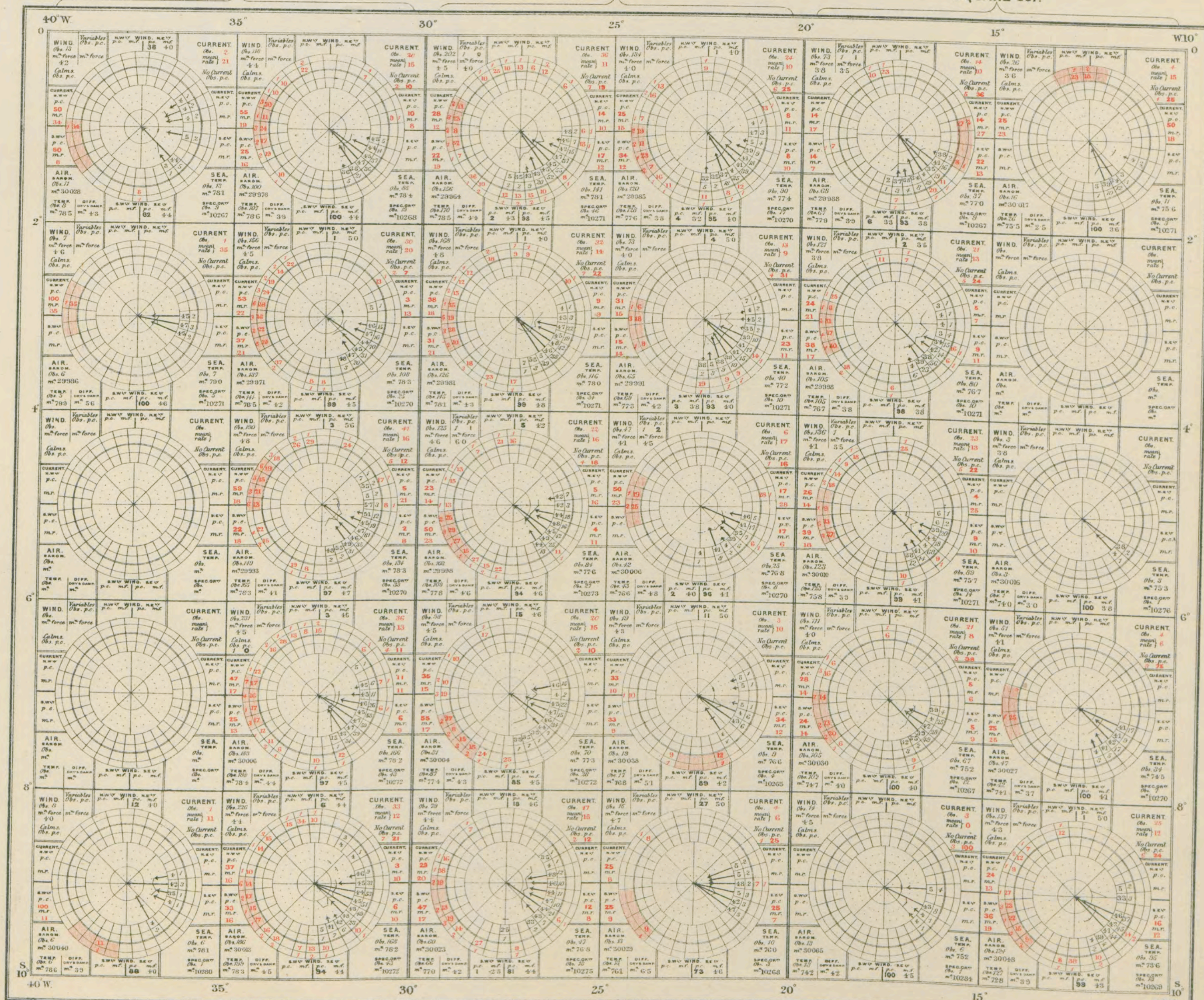
SQUARE 303.

SQUARE 302.

SQUARE 301.

OCTOBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



OCTOBER.

WEATHER, CLOUDS,
SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

Scale of Wind Force.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots
of way with all sail set would go in 3. 4
smooth water and clean full from 5. 6
Royals, &c.
Single reefed topsails, &c.
Double reefed topsails, &c.
Triple reefed topsails, &c.
Close reefed topsails, &c.
With which she could scarcely bear close reefed
main-top-sail and reefed foresail.
Which would reduce her to storm-stay sails.
Which no canvas could withstand.

Weather

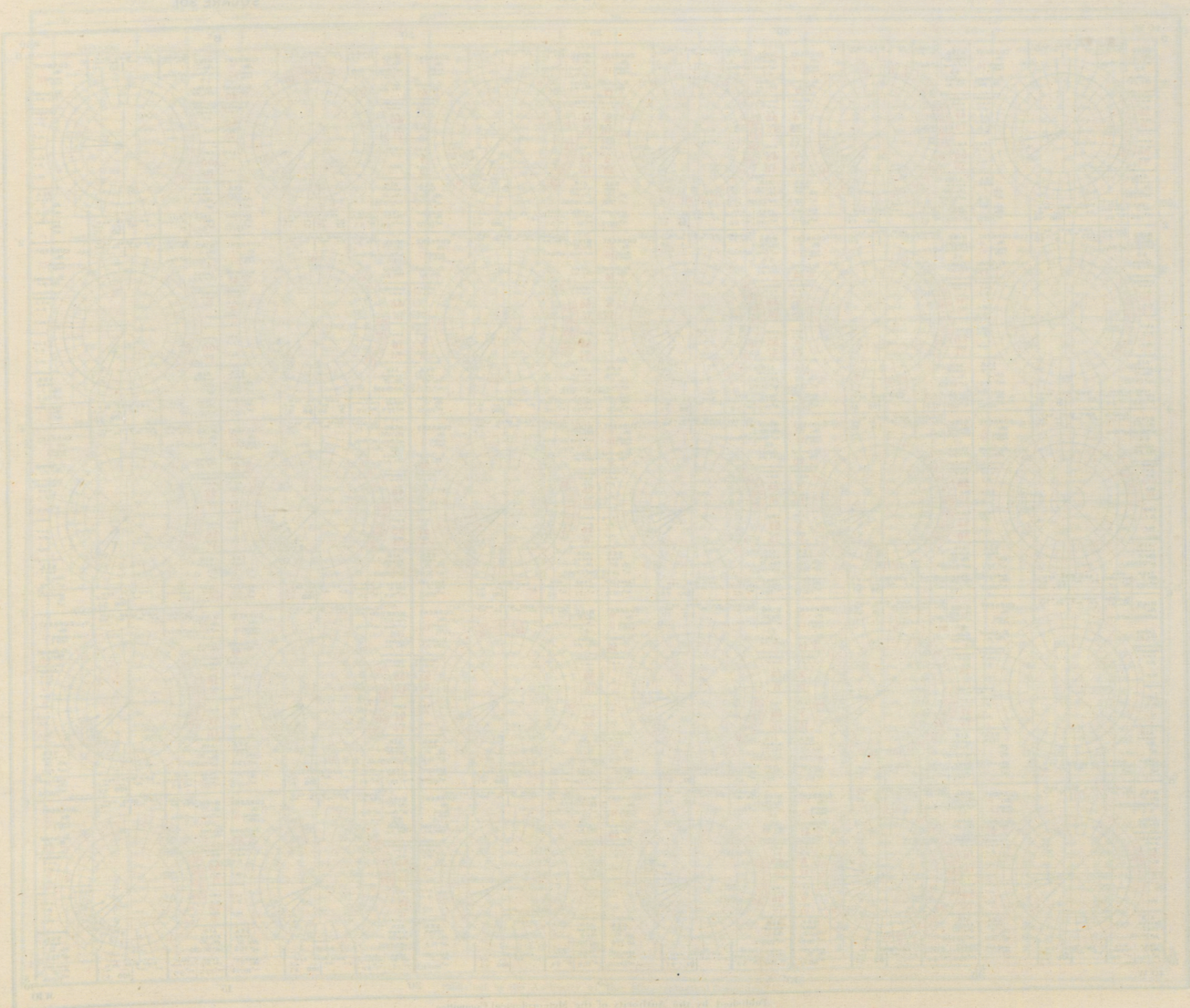
- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
i Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
q Squally.
r Rain.
s Snow.
t Thunder.
u Ugly threatening appearance
of weather.
v Visibility. Objects at a distance
unusually visible.
w Dew.

NOTE. To avoid repetition the bar (—) representing intensity,
usually given below each letter, is on these Charts given
at the head of a column.

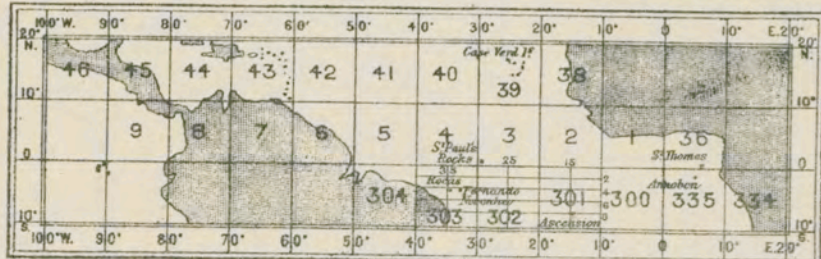
SQUARES
301, 302, 303.
OCTOBER.

40° W.			35°			30°			25°			20°			15°			10° W.		
0			1			2			3			4			5			6		
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.		
Obs. 7			Obs. 11			Obs. 2			Obs. 99			Obs. 90			Obs. 36			Obs. 146		
STORMY.			SKY.			FORM.			STORMY.			SKY.			FORM.			STORMY.		
b. 7			c. 7			a. 7			b. 75			c. 14			a. 16			b. 116		
l. 6			c. 36			a. 11			c. 54			a. 12			b. 11			c. 27		
g. 1			c. 218			a. 7			c. 54			a. 7			b. 11			c. 27		
u. 1			c. 873			a. 1			c. 54			a. 7			b. 11			c. 27		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
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u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
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b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
u. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
WET.			AIR.			STORMY.			WET.			AIR.			STORMY.			WET.		
b. 218			c. 218			a. 1			b. 8			c. 218			a. 1			b. 8		
l. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		
g. 1			c. 218			a. 1			c. 218			a. 1			b. 8			c. 218		

SQUARES
301, 302, 303.
NOVEMBER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



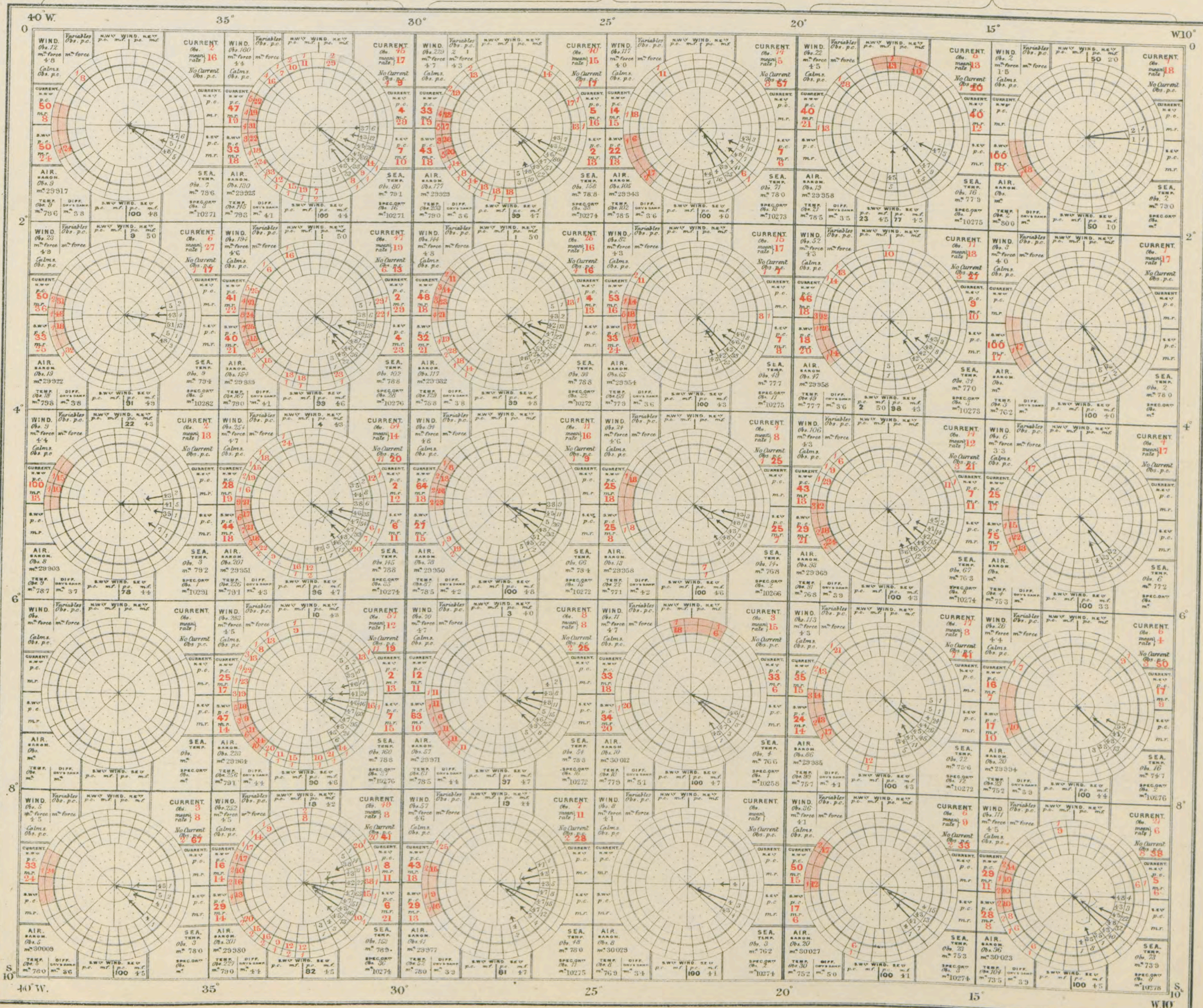
SQUARE 303.

SQUARE 302.

SQUARE 301.

NOVEMBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



NOVEMBER.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

- 0 Calm
1 Light air
2 Light breeze
3 Gentle breeze
4 Moderate breeze
5 Fresh breeze
6 Strong breeze
7 Moderate gale
8 Fresh gale
9 Strong gale
10 Whole gale
11 Storm
12 Hurricane
- Just sufficient to give steerage way.
With which a well conditioned ship 1 to 2 knots
of way with all sail set would go in 3, 4
smooth water and clean full from 5, 6
(Royals &c.)
Single reefed topsails & T.G. sails
Double reefed topsails, jib &c.
Triple reefed topsails, &c.
Close reefed topsails & courses
With which she could scarcely bear close reefed
main-top sail and reefed foresail.
Which would reduce her to storm-stay-sails.
Which no canvas could withstand.

Weather.

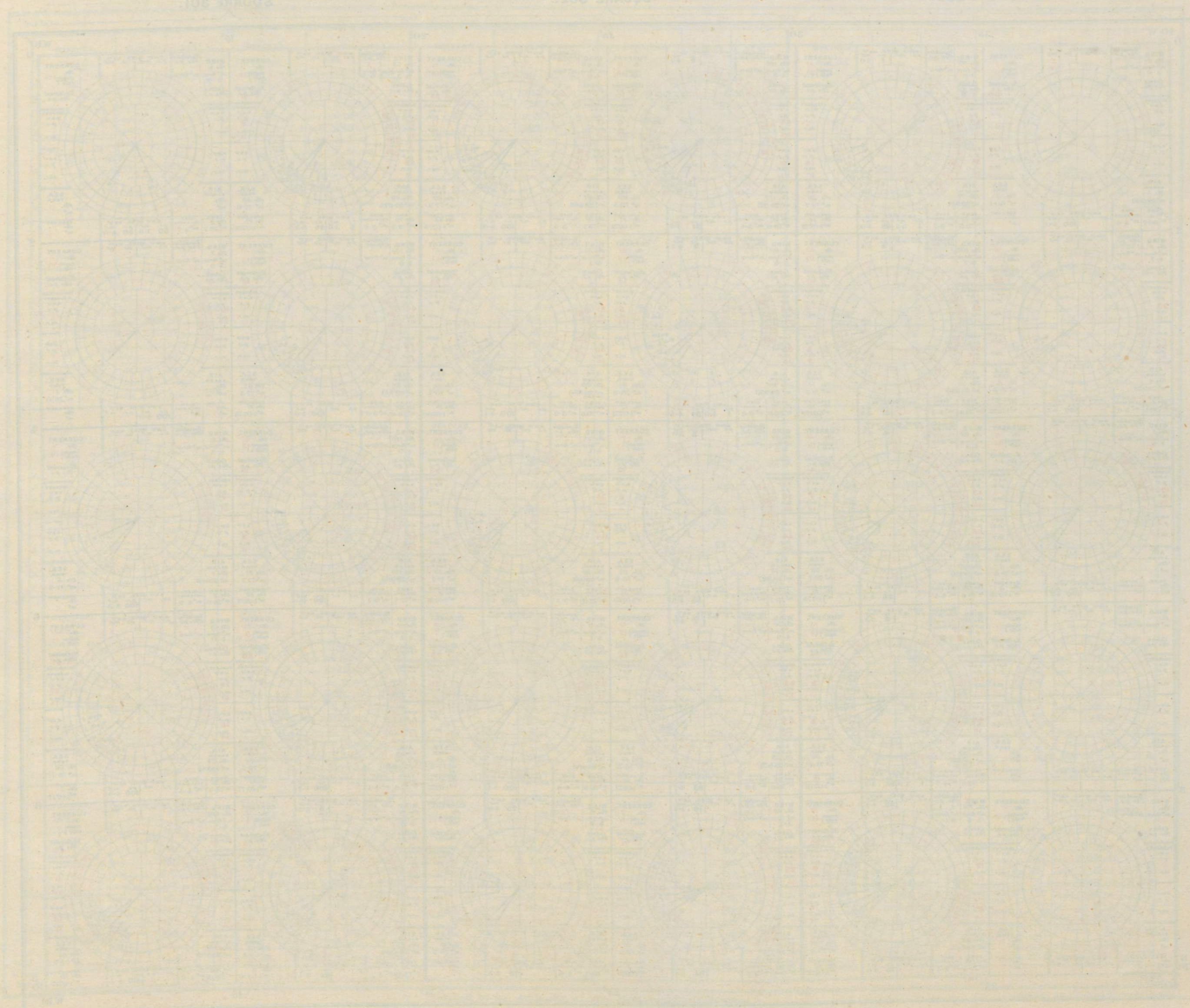
- b Blue sky.
c Clouds (detached).
d Drizzling rain.
f Foggy.
g Gloomy.
h Hail.
i Lightning.
m Misty (hazy).
o Overcast.
p Passing showers.
q Squally.
r Rain.
s Snow.
t Thunder.
u Ugly (threatening appearance of weather).
v Visibility. Objects at a distance unusually visible.
w Dew.

NOTE. To avoid repetition the bar (→) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

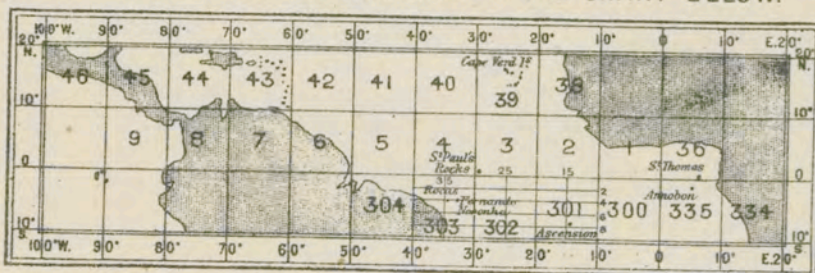
40° W.	35°	30°	25°	20°	15°	10° W.
0	0	0	0	0	0	0
2	2	2	2	2	2	2
4	4	4	4	4	4	4
6	6	6	6	6	6	6
8	8	8	8	8	8	8
10	10	10	10	10	10	10
12	12	12	12	12	12	12
14	14	14	14	14	14	14
16	16	16	16	16	16	16
18	18	18	18	18	18	18
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22	22	22	22	22	22	22
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26	26	26	26	26	26	26
28	28	28	28	28	28	28
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76	76	76	76	76	76	76
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80	80	80	80	80	80	80
82	82	82	82	82	82	82
84	84	84	84	84	84	84
86	86	86	86	86	86	86
88	88	88	88	88	88	88
90	90	90	90	90	90	90
92	92	92	92	92	92	92
94	94	94	94	94	94	94
96	96	96	96	96	96	96
98	98	98	98	98	98	98
100	100	100	100	100	100	100

SQUARES
301, 302, 303.
NOVEMBER.

SQUARES
301, 302, 303.
DECEMBER.



THE SPACES IN THE THREE DIVIDED SQUARES
CORRESPOND TO THE SQUARES IN THE CHART BELOW.



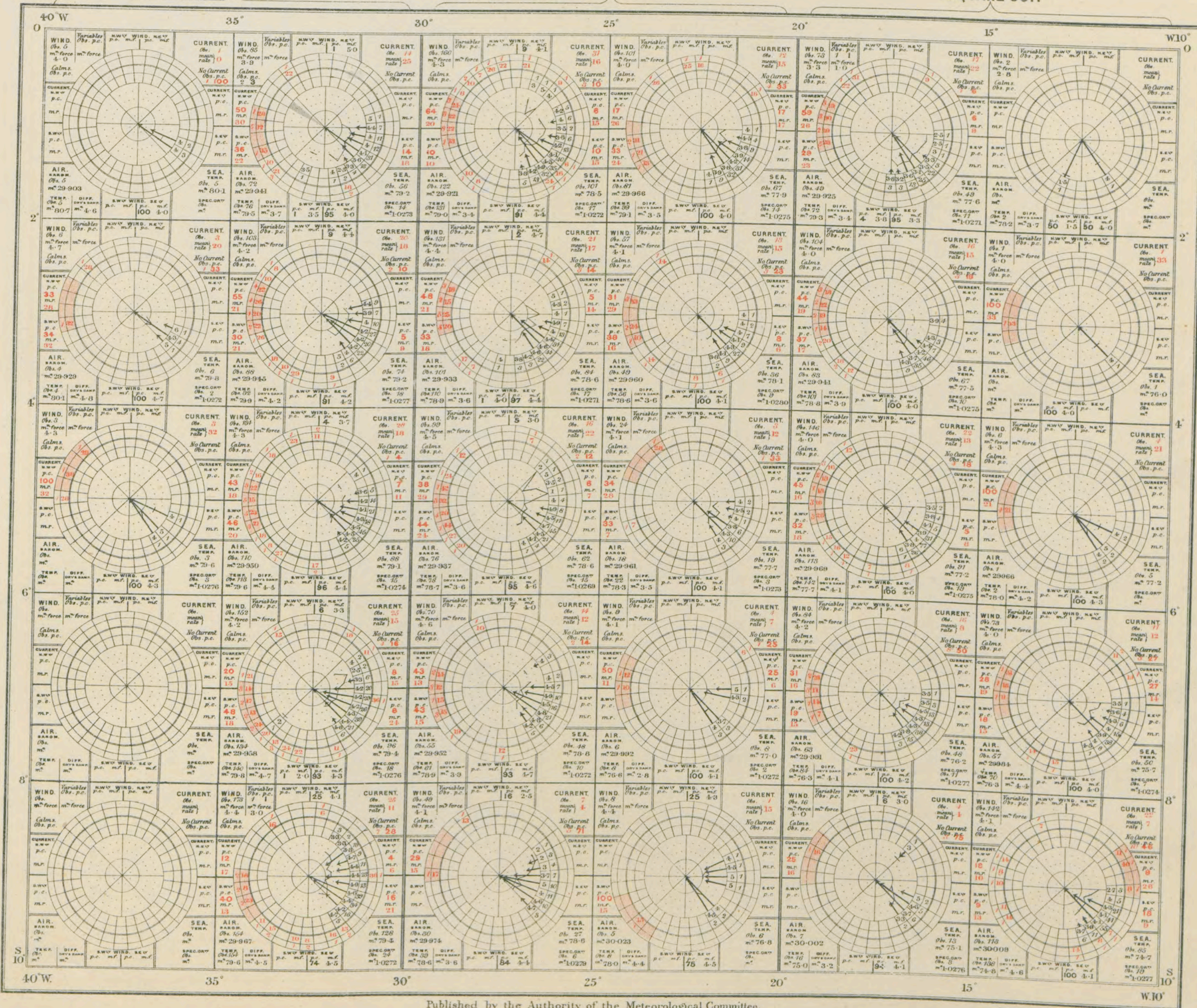
SQUARE 303.

SQUARE 302.

SQUARE 301.

DECEMBER.

WINDS, CURRENTS, BAROMETER, TEMPERATURE, SPECIFIC GRAVITY.



DECEMBER.

WEATHER, CLOUDS, SEA OR SWELL.

SQUARE 303.

SQUARE 302.

SQUARE 301.

BEAUFORT NOTATION.
Scale of Wind Force.

- | | | |
|----|-----------------|---|
| 0 | Calm | Just sufficient to give steerage way. |
| 1 | Light air | |
| 2 | Light breeze | With which a well conditioned ship 1 to 2 knots |
| 3 | Gentle breeze | of way with all sail set would go in 3, 4 |
| 4 | Moderate breeze | smooth water and clean full, from 5, 6 |
| 5 | Fresh breeze | Royals, &c. |
| 6 | Strong breeze | Single reefed topsails, &c. |
| 7 | Moderate gale | Double reefed topsails, &c. |
| 8 | Fresh gale | Triple reefed topsails, &c. |
| 9 | Strong gale | (Close reefed topsails, &c.) |
| 10 | Whole gale | With which she could scarcely bear close reefed |
| 11 | Storm | main-top-sail and reefed foresail. |
| 12 | Hurricane | Which would reduce her to storm-stay sails. |

Weather.

- | | | | |
|---|--------------------|---|-----------------------------------|
| b | Blue sky. | g | Squally. |
| c | Clouds (detached). | r | Rain. |
| d | Drizzling rain. | s | Snow. |
| f | Foggy. | t | Thunder. |
| g | Gloomy. | u | Ugly threatening appearance |
| h | Hail. | v | of weather. |
| i | Lightning. | w | Visibility. Objects at a distance |
| m | Misty (hazy). | x | unusually visible. |
| o | Overcast. | y | Dew. |
| p | Passing showers. | | |

NOTE. To avoid repetition the bar (—) representing intensity, usually given below each letter, is on these Charts given at the head of a column.

40°W.			35°			30°			25°			20°			15°			10°W.					
0			1			2			3			4			5			6					
WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.			CLOUDS.			SEA OR SWELL.			WEATHER.					
Obs. 5			Obs. 5			Obs. 12			Obs. 115			Obs. 55			Obs. 21			Obs. 55					
STORMY.	SKY.	Obs. 5	FORM.	Obs. 5	Obs. 12	STORMY.	SKY.	Obs. 115	FORM.	Obs. 55	Obs. 21	STORMY.	SKY.	Obs. 55	FORM.	Obs. 21	STORMY.	SKY.	Obs. 55	Obs. 21			
h	b	5	Obs. 5	Obs. 12	Obs. 115	h	b	5	Obs. 55	Obs. 21	Obs. 55	h	b	5	Obs. 55	Obs. 21	h	b	5	Obs. 55	Obs. 21		
l	c	5	Obs. 5	Obs. 12	Obs. 115	l	c	5	Obs. 55	Obs. 21	Obs. 55	l	c	5	Obs. 55	Obs. 21	l	c	5	Obs. 55	Obs. 21		
g	a	5	Obs. 5	Obs. 12	Obs. 115	g	a	5	Obs. 55	Obs. 21	Obs. 55	g	a	5	Obs. 55	Obs. 21	g	a	5	Obs. 55	Obs. 21		
u	g	5	Obs. 5	Obs. 12	Obs. 115	u	g	5	Obs. 55	Obs. 21	Obs. 55	u	g	5	Obs. 55	Obs. 21	u	g	5	Obs. 55	Obs. 21		
WET.	AIR.	Obs. 5	WET.	AIR.	Obs. 12	WET.	AIR.	Obs. 115	WET.	AIR.	Obs. 55	WET.	AIR.	Obs. 21	WET.	AIR.	WET.	AIR.	Obs. 55	Obs. 21			
h	b	5	h	b	5	h	b	5	h	b	5	h	b	5	h	b	5	h	b	5	h	b	5
r	c	5	r	c	5	r	c	5	r	c	5	r	c	5	r	c	5	r	c	5	r	c	5
p	a	5	p	a	5	p	a	5	p	a	5	p	a	5	p	a	5	p	a	5	p	a	5
d	g	5	d	g	5	d	g	5	d	g	5	d	g	5	d	g	5	d	g	5	d	g	5
AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12	AMOUNT.	Obs. 5	Obs. 12
Obs. 5	Obs. 12	Obs. 115	Obs. 5	Obs. 12	Obs. 115	Obs. 5	Obs. 12	Obs. 115	Obs. 5	Obs. 12	Obs. 115	Obs. 5	Obs. 12	Obs. 115	Obs. 5	Obs. 12	Obs. 5	Obs. 12	Obs. 115	Obs. 5	Obs. 12	Obs. 115	
mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	mean 1.4	

SQUARES
301, 302, 303.
DECEMBER.

MARCH.

FEBRUARY.

JANUARY.

PLATE I.

PREVAILING

WINDS.

ISOBARS

FOR EACH OF

AN INCH OF THE

BAROMETER.

THE THIN LINES SHOW

A DIFFERENCE OF

ONE TENTH OF AN INCH

IN THE BAROMETER.

ISOTHERMS

OF AIR

AT THE SURFACE

OF THE OCEAN.

THE THIN LINES SHOW

A DIFFERENCE OF

ONE DEGREE OF

TEMPERATURE.

PREVAILING

CURRENTS

AND

ISOTHERMS

OF SEA

WATER.

THE THIN LINES SHOW

A DIFFERENCE OF

ONE TENTH OF AN INCH

IN THE BAROMETER.

JANUARY.

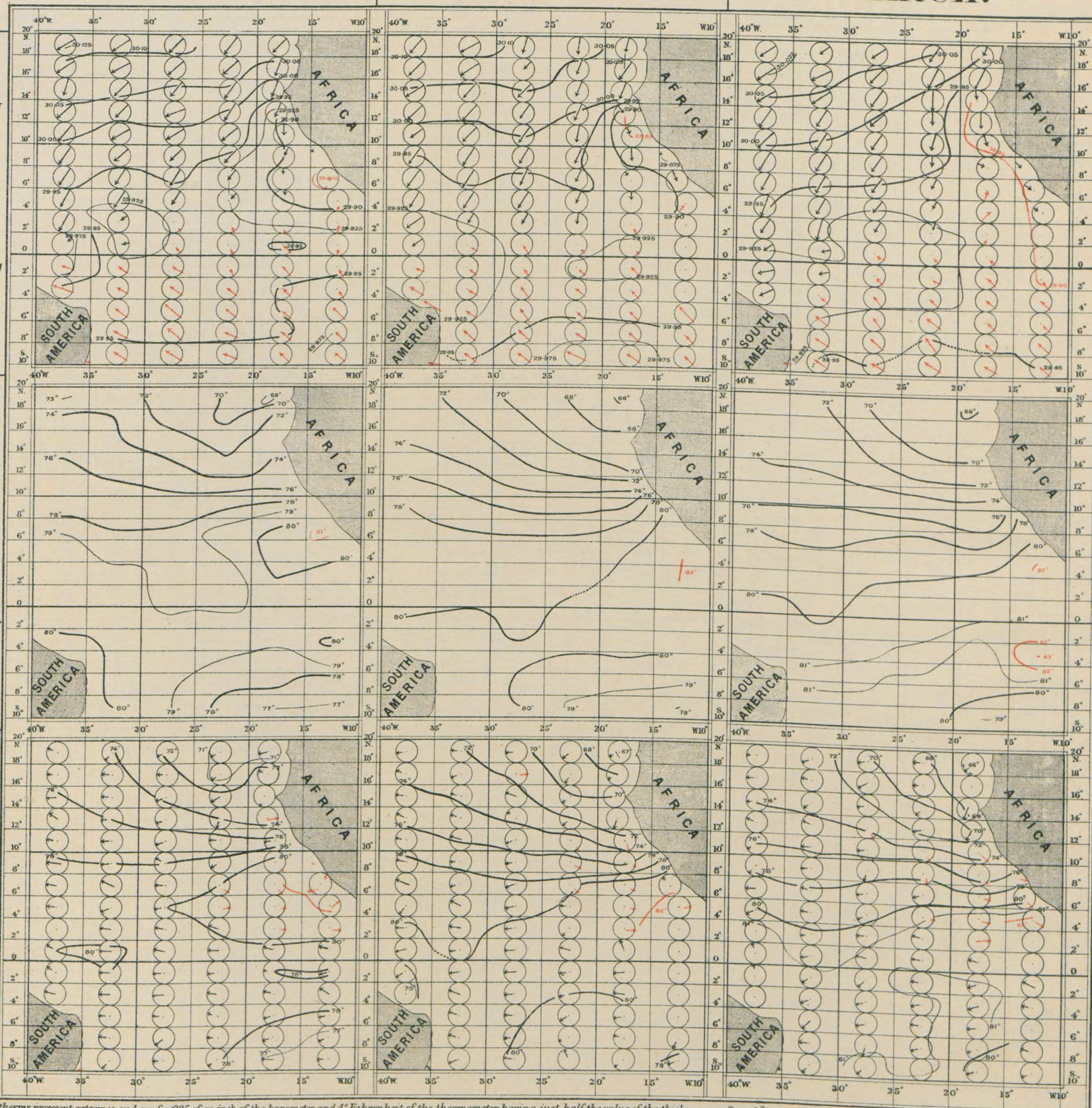
FEBRUARY.

MARCH.

**PREVAILING
WINDS*†
AND
ISOBARS**
FOR EACH '05 OF
AN INCH OF THE
BAROMETER.
THE THIN LINES SHOW
A DIFFERENCE OF
ONLY '025 OF AN INCH.

**ISOTHERMS
OF AIR**
FOR EVERY 2°
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°

**PREVAILING
CURRENTS†
AND
ISOTHERMS
OF SEA**
FOR EVERY 2°
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°



NOTE. Thin Isobars and Isotherms represent extremes and are for '025 of an inch of the barometer and 1° Fahrenheit of the thermometer, having just half the value of the thicker ones. Dotted lines merely connect the different parts of an isobar or isotherm when the data do not authorize its being drawn. The lines of lowest pressure and highest temperature are given in red.

* Each arrow flies from the point having the most frequent wind. Its length shows the mean force of that wind, and is proportional to the rate per hour at which the wind would drive Beaufort's ship; nine miles an hour (force 5) extending across the circle.

† Northerly winds and Westerly currents have black, whilst Southerly winds and Easterly currents have red arrows.

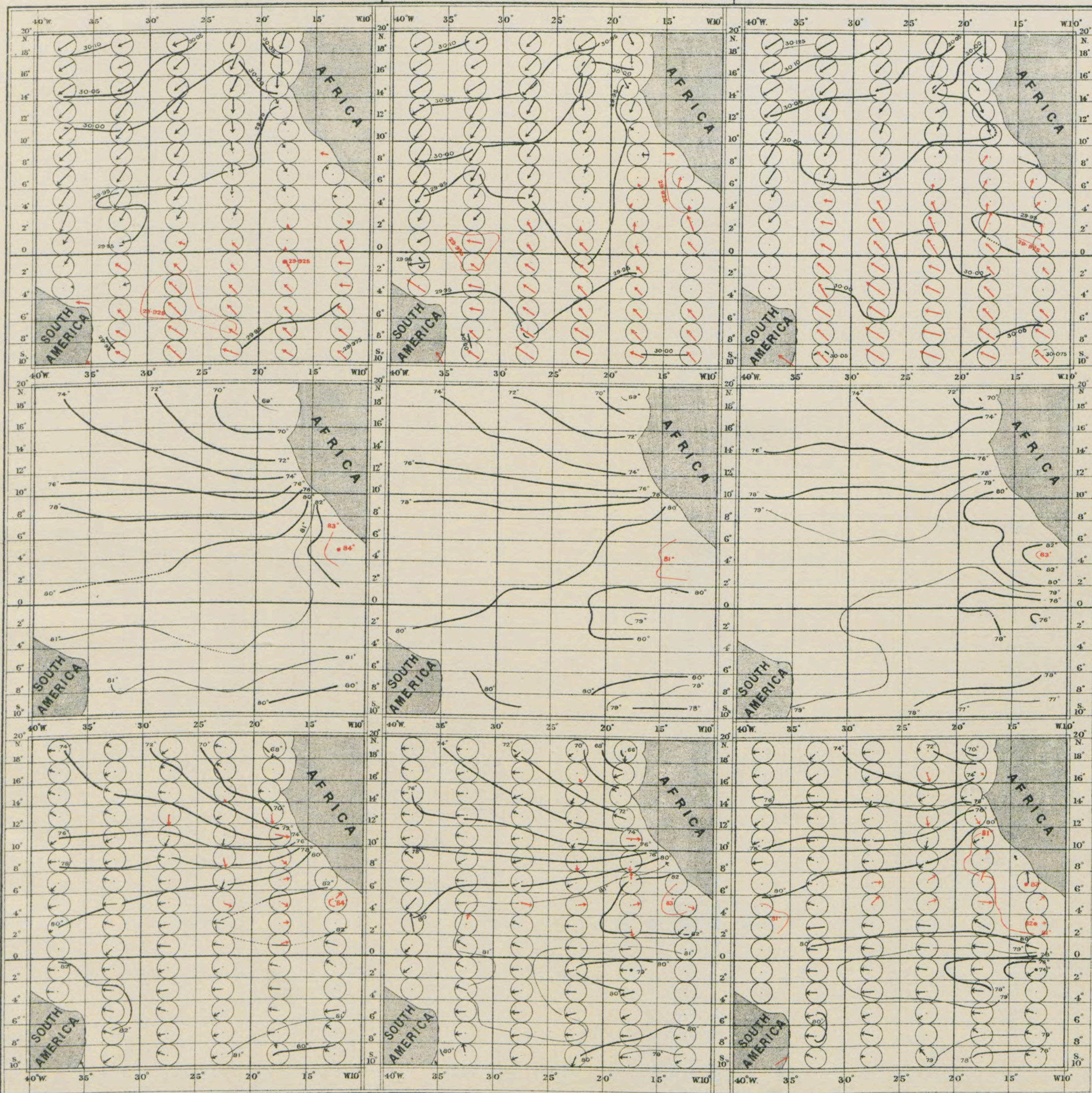
‡ The current arrows fly towards the centre of the octant which has the most current, their length is proportional to the rate in 24 hours of the mean current in that octant; 50 miles extending across the circle.

APRIL.

MAY.

JUNE.

PLATE II.
To face Plate I.



**PREVAILING
WINDS[†]
AND
ISOBARS**

FOR EACH .05 OF
AN INCH OF THE
BAROMETER.

THE THIN LINES SHOW
A DIFFERENCE OF
ONLY .025 OF AN INCH.

**ISOTHERMS
OF AIR**

FOR EVERY 2ND
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°

**PREVAILING
CURRENTS^{††}
AND
ISOTHERMS
OF SEA**

FOR EVERY 2ND
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°

NOTE. Thin Isobars and Isotherms represent extremes and are for .025 of an inch of the barometer, and 1° Fahrenheit of the thermometer, having just half the value of the thicker ones. Dotted lines merely connect the different parts of an isobar or isotherm when the data do not authorize its being drawn. The lines of lowest pressure and highest temperature are given in red.

* Each arrow flies from the point having the most frequent wind. Its length shows the mean force of that wind, and is proportional to the rate per hour at which the wind would drive Beaufort's ship; nine miles an hour (force 5) extending across the circle.

† Northerly winds and Westerly currents have black, whilst Southerly winds and Easterly currents have red arrows.

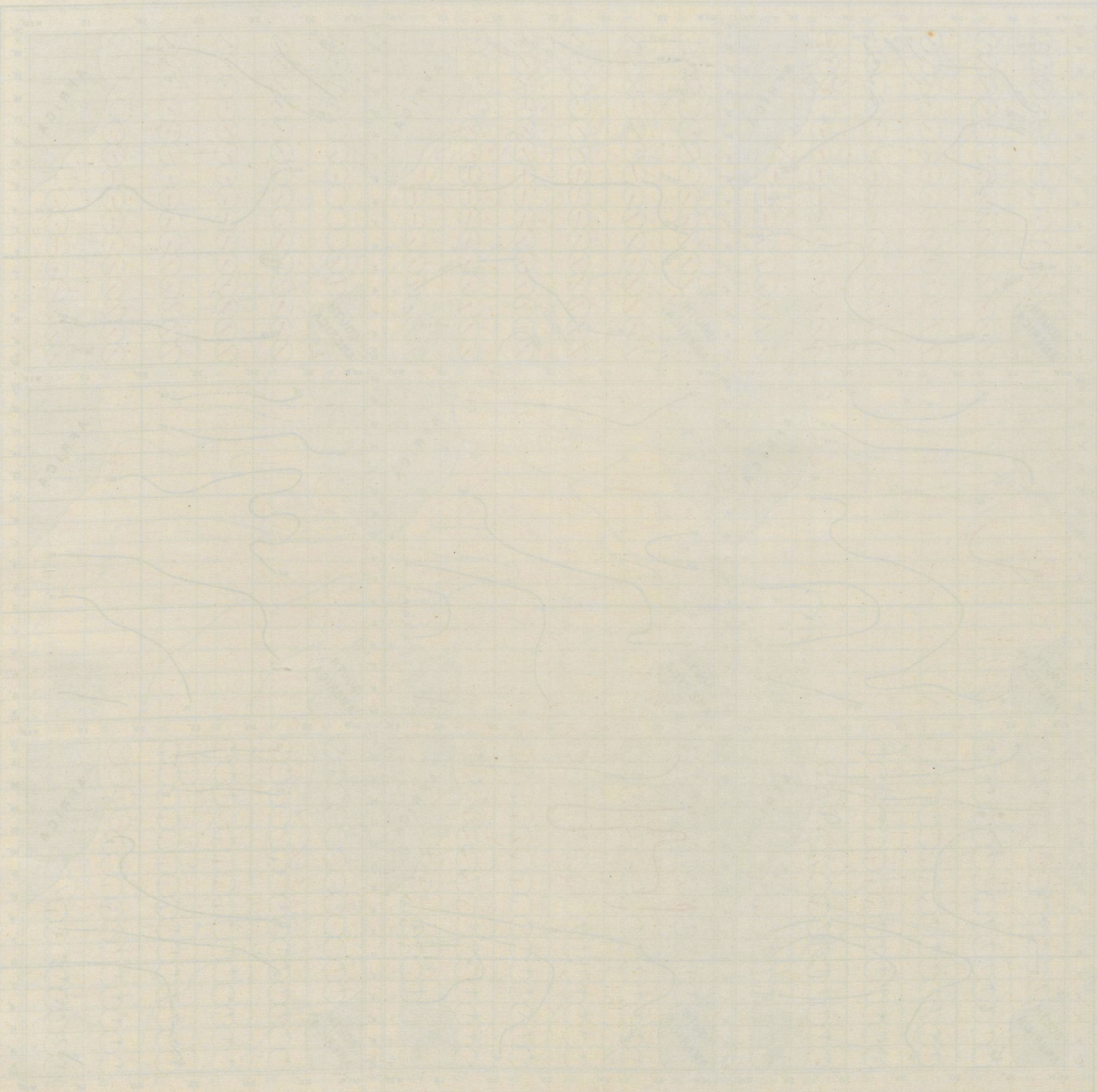
†† The current arrows fly towards the centre of the octant which has the most current, their length is proportional to the rate in 24 hours of the mean current in that octant; 50 miles extending across the circle.

SEPTEMBER.

AUGUST.

JULY.

PLATE III.



PREVAILING
WINDS
AND
ISOBARS
FOR EACH OF
AN INCH OF THE
BAROMETER.
THE THIN LINES SHOW
A DIFFERENCE OF
ONLY ONE TENTH OF AN INCH.

ISOTHERMS
OF THE AIR
FOR EVERY 2°
DEGREE OF
TEMPERATURE.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY
ONE TENTH OF A DEGREE.

PREVAILING
CURRENTS
AND
ISOTHERMS
OF THE SEA
FOR EVERY 2°
DEGREE OF
TEMPERATURE.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY
ONE TENTH OF A DEGREE.

NOTE: The maps are based on the observations of the U.S. Fish Commission's steamships, the Albatross, Thetis, and Fish Hawk, during the summer months of 1871. The data is presented in a simplified manner, showing only the general features of the weather and ocean conditions. The maps are not intended to be used for navigation or other practical purposes.

JULY.

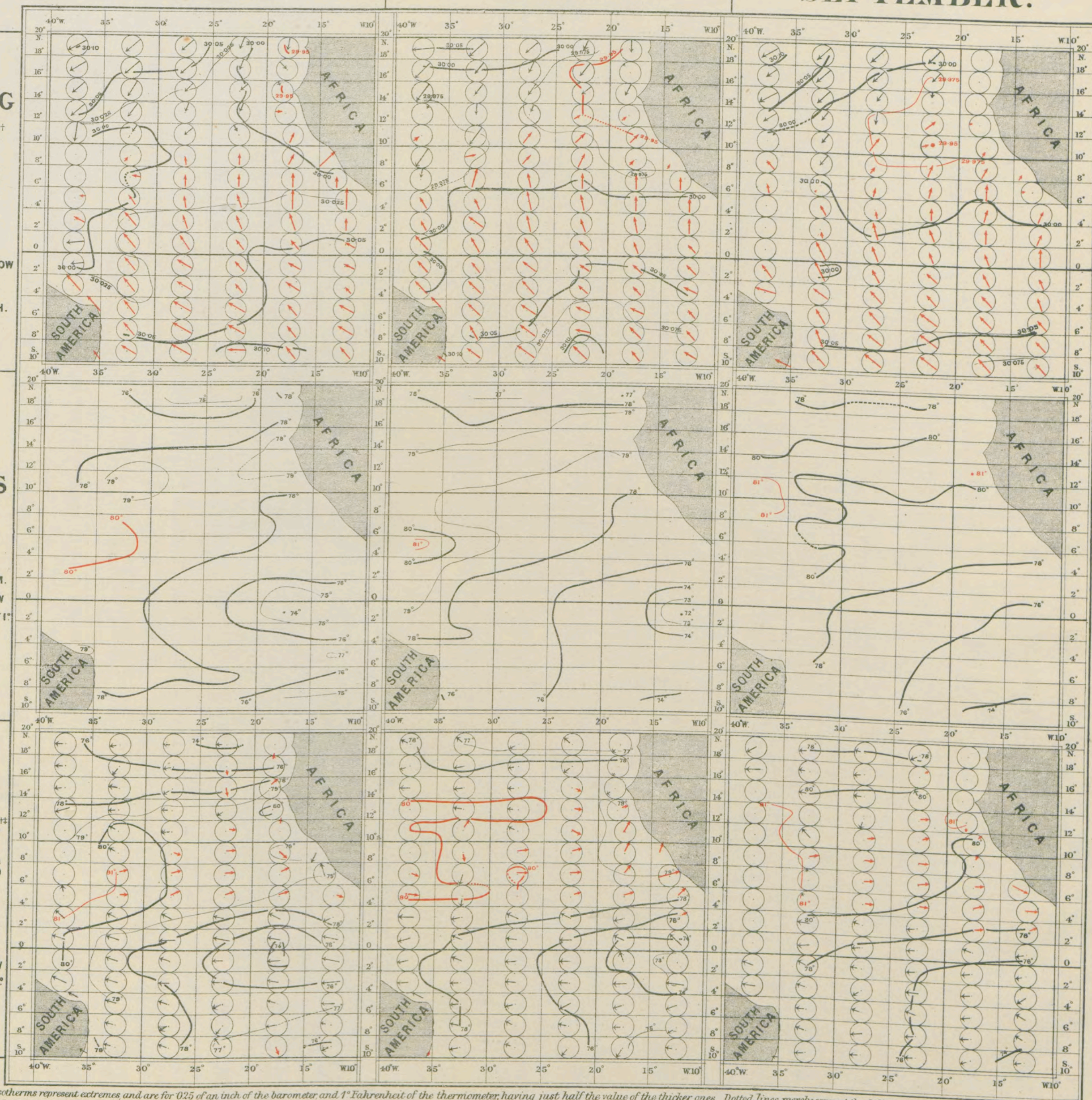
AUGUST.

SEPTEMBER.

**PREVAILING
WINDS[†]
AND
ISOBARS**
FOR EACH '05 OF
AN INCH OF THE
BAROMETER.
THE THIN LINES SHOW
A DIFFERENCE OF
ONLY '025 OF AN INCH.

**ISOTHERMS
OF AIR**
FOR EVERY 2ND
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°.

**PREVAILING
CURRENTS^{††}
AND
ISOTHERMS
OF SEA**
FOR EVERY 2ND
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°.



NOTE. Thin Isobars and Isotherms represent extremes, and are for '025 of an inch of the barometer and 1° Fahrenheit of the thermometer, having just half the value of the thicker ones. Dotted lines merely connect the different parts of an isobar or isotherm when the data do not authorize its being drawn. The lines of lowest pressure and highest temperature are given in red.

* Each arrow flies from the point having the most frequent wind. Its length shows the mean force of that wind, and is proportional to the rate per hour at which the wind would drive Beaufort's ship; nine miles an hour (force 5) extending across the circle.

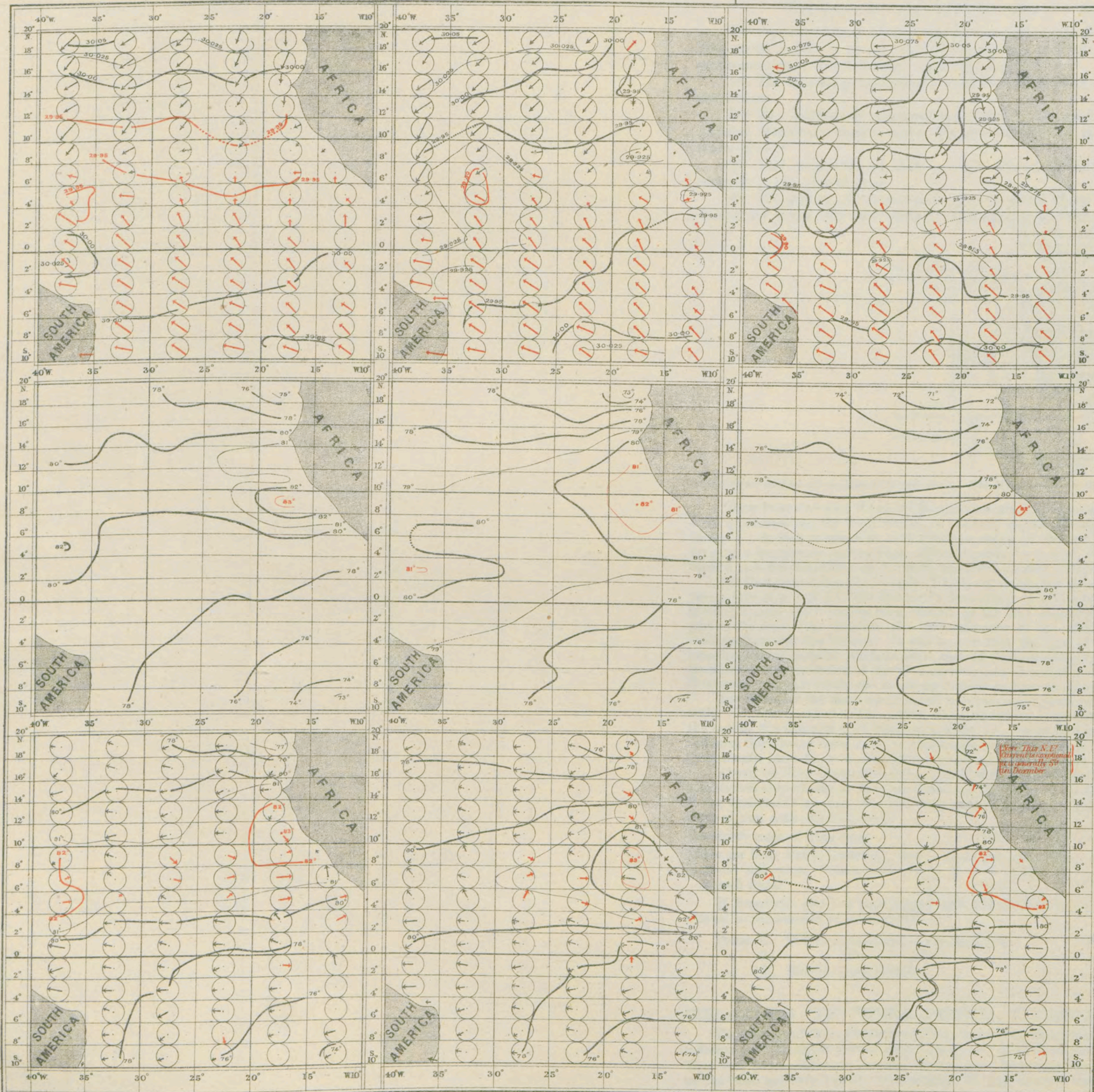
† Northerly winds and Westerly currents have black, whilst Southerly winds and Easterly currents have red arrows.

†† The current arrows fly towards the centre of the octant which has the most current, their length is proportional to the rate in 24 hours of the mean current in that octant; 50 miles extending across the circle.

OCTOBER.

NOVEMBER.

DECEMBER.

PLATE IV.
To face Plate III.

**PREVAILING
WINDS*†
AND
ISOBARS**
FOR EACH '05 OF
AN INCH OF THE
BAROMETER.
THE THIN LINES SHOW
A DIFFERENCE OF
ONLY '025 OF AN INCH.

**ISOTHERMS
OF AIR**
FOR EVERY 2°
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°

**PREVAILING
CURRENTS††
AND
ISOTHERMS
OF SEA**
FOR EVERY 2°
DEGREE OF
FAHRENHEIT'S THERM.
THE THIN LINES SHOW
A DIFFERENCE OF ONLY 1°

NOTE. Thin Isobars and Isotherms represent extremes and are for '025 of an inch of the barometer, and 1° Fahrenheit of the thermometer; having just half the value of the thicker ones. Dotted lines merely connect the different parts of an isobar or isotherm when the data do not authorize its being drawn. The lines of lowest pressure and highest temperature are given in red.

* Each arrow flies from the point having the most frequent wind. Its length shows the mean force of that wind, and is proportional to the rate per hour at which the wind would drive Beaufort's ship; nine miles an hour (force 5) extending across the circle.

† Northerly winds and Westerly currents have black, whilst Southerly winds and Easterly currents have red arrows.

†† The current arrows fly towards the centre of the octant which has the most current, their length is proportional to the rate in 24 hours of the mean current in that octant; 50 miles extending across the circle.

EXPLANATION.

CHARTS OF WINDS, CURRENTS, BAROMETER, TEMPERATURE, AND SPECIFIC GRAVITY.

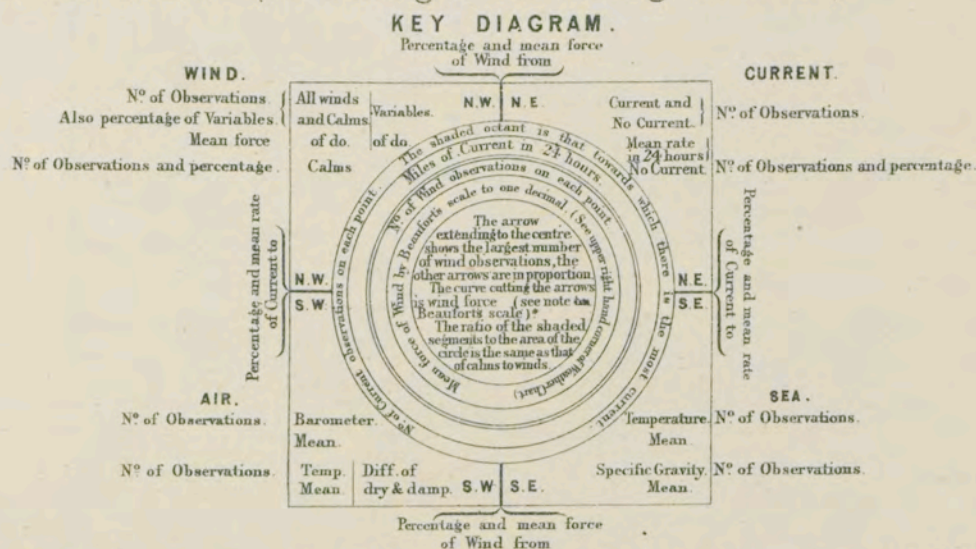
The Squares of these Charts contain data sifted into 5° of longitude by 2° of latitude, and although they give much detail in figures, the Navigator has only to consult the circles of each square for a graphic representation of the following most important facts:—

1st. The relative prevalence of wind from each point of the compass: shown by the relative lengths of the arrows.

2nd. The number of miles per hour which the wind would drive a well-conditioned ship-of-war of Admiral Beaufort's time: shown by the distance of the curve from the circumference of the wind-arrow-circle.*

3rd. The proportion of calm to wind: shown by the proportion of shaded to unshaded points of the compass in the central area.

4th. The octant of the compass *towards* which there is the most current: shown by the four points shaded red in the two outer circles. (All relating to Current is given in *red*.)



Italics (*36*) are used for the numbers of all observations. Roman figures (*36*) for the means of all observations. Egyptian figures (*36*) for the percentages.

* THE FORCE OF THE WIND by Beaufort's scale, which scale is given with each Weather Chart, is represented by a curve intersecting the wind arrows, or the radii on which they are drawn (in cases where the arrows are not long enough). A dash is drawn on each arrow or radius at the spot representing its wind force; these dashes are joined, forming a continuous curve, when adjacent points have wind observations but not otherwise. This curve may be viewed as a web travelling on the radii, and driven nearer to the centre as the force of the wind increases.

The first part of Beaufort's scale (1 to 5) represents the speed per hour which the wind would drive a well-conditioned ship-of-war of Admiral Beaufort's time (1800 to 1850) when sailing "*clean full*" in smooth water; 1 being about $\frac{1}{2}$ a mile, and 5 having been settled by the best authorities to represent 9 miles per hour. The curve of this part of the scale falls between the circumference of the wind-arrow-circle and the small inner circle, counting inwards from the first named. It will be seen that the part of a radius which lies between these circles is divided into three equal parts by two faint dots; each of these parts represents 3 miles an hour, so that, when the curve nearly touches the circumference of the wind-arrow-circle, Beaufort's ship would go about half a mile an hour, whilst when it touches the inner circle she would go 9 miles an hour in smooth water.

The radius of the *inner* circle is cut into two equal parts by a dot; each part represents three units of Beaufort's scale, viz., 6 to 8 and 9 to 11, so that, when the curve extends *within* the inner circle by one-third of a division of the radius, it represents 6 of Beaufort's scale, i.e., "a single-reefed topsail and top-gallant sail breeze" and so on, the next third being force 7, or "a double-reefed topsail breeze." When the curve extends to the centre of the circle it represents force 11, or a storm which would reduce Beaufort's ship to "storm-stay-sails."

Above we have shown that forces 1 to 5 of Beaufort's scale represent certain rates of sailing per hour for a well-conditioned ship-of-war of Admiral Beaufort's time, but as the ship's speed does not increase in the same proportion as the figures of that scale, the following table of miles per hour has been given for each unit and certain decimal parts of that scale, up to force 5.

Beaufort's scale of wind force	-	1	1.5	2	2.3	2.8	3	3.3	3.8	4	4.1	4.4	4.7	5
Miles per hour which Beaufort's ship would sail when "clean full" in smooth water	-	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	3	$3\frac{1}{2}$	4	5	$5\frac{1}{2}$	6	7	8	9

If Beaufort's ship had been rigged with double topsails it is supposed that the following differences would have existed in the amount of sail carried:—

Force 6.	Whole topsails and top-gallant sails.	Force 9.	Lower topsails and courses.
" 7.	Do. jib.	" 10.	Lower main-topsail and reefed foresail.
" 8.	Reefed upper topsails.		

CHARTS OF WEATHER, CLOUDS, AND SEA OR SWELL.

The Squares of these Charts contain the number of observations and certain percentages of WEATHER by Beaufort's notation (see the upper part of each Chart), also of CLOUDS and SEA, for strips of 5° of longitude by 2° of latitude. They may be considered to explain themselves. Extremes are expressed by a bar above a figure, so that $q24 \mid \bar{6}$ means that ordinary squalls were entered 24 and heavy 6 times, making 30 in all, the percentage of which is calculated on the number of *wind* observations, as it is supposed that wind was more regularly entered than any other observations, and that exceptional weather was generally recorded, though fine weather may have been frequently omitted.

PLATES OF MONTHLY DIAGRAMS.

The Plates follow the Charts, and are explained by marginal and foot notes.

