

OCEAN WEATHER STATION PAPA, 1949-1981

Data Dictionary: (DailyAvgPapa_EN.csv)

COLUMN	DESCRIPTION
Year	The year the data was collected (YYYY)
Month	The month the data was collected (MM)
Day	The day the data was collected (DD)
U10 (m/s)	The recorded wind speed in metres per second (m/s)
Wave Height (m)	The recorded wave height in metres (m)

Data Dictionary: (FullPapa_EN.csv)

COLUMN	DESCRIPTION																																																												
Card Deck Number	Number of the punched card deck from which the observation came (000-999)																																																												
10 Marsden Square	Marsden grid number (001-936)																																																												
1 Marsden Square	Marsden sub-grid number (00-99)																																																												
Quadrant	1=N Latitude and W Longitude 2=N Latitude and E Longitude 3=S Latitude and W Longitude 4=S Latitude and E Longitude																																																												
Latitude	The latitude position of the sampling site in decimal degrees																																																												
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Wind Direction Indicator	Δ = 36 point scale 0 = 32 point scale 1 = 16 of 36 point scale 2 = 16 of 32 point scale																																																												
Wind Direction	Direction from which the wind is blowing: <table border="1"> <thead> <tr> <th>36Pt</th> <th>32Pt</th> <th>16 of 36Pt</th> <th>16 of 32Pt</th> </tr> </thead> <tbody> <tr> <td>00=Calm</td> <td>Calm</td> <td>Calm</td> <td>Calm</td> </tr> <tr> <td>01=005-014°</td> <td>006-016°</td> <td></td> <td></td> </tr> <tr> <td>02=015-024°</td> <td>017-028°</td> <td>012-033°</td> <td>012-034</td> </tr> <tr> <td>03=025-034°</td> <td>029-039°</td> <td></td> <td></td> </tr> <tr> <td>04=035-044°</td> <td>040-050°</td> <td></td> <td>035-056°</td> </tr> <tr> <td>05=045-054°</td> <td>051-061°</td> <td>034-056°</td> <td></td> </tr> <tr> <td>06=055-64°</td> <td>062-073°</td> <td></td> <td>057-079°</td> </tr> <tr> <td>07=065-074°</td> <td>074-084°</td> <td>057-078°</td> <td></td> </tr> <tr> <td>08=075-084°</td> <td>085-095°</td> <td></td> <td>080-101°</td> </tr> <tr> <td>09=085-094°</td> <td>096-106°</td> <td>079-101°</td> <td></td> </tr> <tr> <td>10=095-104°</td> <td>107-118°</td> <td></td> <td>102-124°</td> </tr> <tr> <td>11=105-114°</td> <td>119-129°</td> <td>102-123°</td> <td></td> </tr> <tr> <td>12=115-124°</td> <td>130-140°</td> <td></td> <td>125-136°</td> </tr> <tr> <td>13=125-134°</td> <td>141-151°</td> <td></td> <td></td> </tr> </tbody> </table>	36Pt	32Pt	16 of 36Pt	16 of 32Pt	00=Calm	Calm	Calm	Calm	01=005-014°	006-016°			02=015-024°	017-028°	012-033°	012-034	03=025-034°	029-039°			04=035-044°	040-050°		035-056°	05=045-054°	051-061°	034-056°		06=055-64°	062-073°		057-079°	07=065-074°	074-084°	057-078°		08=075-084°	085-095°		080-101°	09=085-094°	096-106°	079-101°		10=095-104°	107-118°		102-124°	11=105-114°	119-129°	102-123°		12=115-124°	130-140°		125-136°	13=125-134°	141-151°		
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	17=165-174°	186-196°			
	18=175-184°	197-208°	169-191°	192-214	
Wind Speed	The recorded wind speed in knots: 0 = Calm 1-199 = 1 to 199 Knots				
Ship ID	The ID number of the CCGS observations were recorded from				
U10	The recorded wind speed in metres per second (UofW quality control activity: Converted from other height using logarithmic profile and Smith (1988))				
Visibility Indicator	Δ = Not measured 0 = Measured 1= Fog present				
Visibility	Horizontal visibility at the surface in kilometres 90 = <0.05 91 = 0.05 92 = 0.2 93 = 0.5 94 = 1 95 = 2 96 = 4 97 = 10 98 = 20 99 = 50 or more Note: When Visibility Indicator = 1, and visibility = 93, it means that fog was present and visibility was not reported				
Present Weather	00 = Cloud development not observed 01 = Clouds generally dissolving or becoming less developed 02 = State of the sky unchanged 03 = Clouds generally forming or developing 04 = Visibility reduced by smoke 05 = Haze 06 = Widespread dust in suspension in the air, not raised by wind, at or near the station at the time of observation. 07 = Dust or sand raised by wind at or near the station at the time of observation, but no well developed dust whirls or sand whirls and no duststorm or sandstorm seen. 08 = Well developed dust whirls or sand whirls seen at or near the station during the preceding hour or at the time of observation, but no duststorm or sandstorm. 09 = Duststorm or sandstorm within sight at the time of observation, or at the station during the preceding hour.				

10 = Light fog (visibility 1,100 yards or more). Synonymous with European term "mist".

11 = Patches of shallow fog or ice fog at the station, not deeper than about 10 metres.

12 = More or less continuous shallow fog or ice fog at the station, not deeper than about 10 metres.

13 = Lightning visible, no thunder heard.

14 = Precipitation within sight, not reaching the surface of the sea.

15 = Precipitation within sight, reaching the surface of the sea, but more than 5 km. from the ship.

16 = Precipitation within sight, reaching the surface of the sea, near to, but not at the ship.

17 = Thunderstorm, but no precipitation at the time of observation.

18 = Squalls at or within sight of the ship during the preceding hour or at the time of observation.

19 = Funnel cloud or waterspout at or within sight of the ship during the preceding hour or at the time of observation. The following phenomena occurred at the ship during the preceding hour but not at the time of observation.

20 – Drizzle (not freezing) or snow grains

21 = Rain (not freezing)

22 = Snow

23 = Rain and snow or ice pellets, type (a)

24 = Freezing drizzle or freezing rain.

25 = Shower(s) of rain

26 = Showers of snow or of rain and snow.

27 = Shower(s) of hail (ice pellets, type (b), snow pellets), or of rain and hail (ice pellets, type (b), snow pellets).

28 = Fog or ice fog.

29 = Thunderstorms (with or without precipitation)

Present weather codes 30-99 refer to phenomena occurring at the ship at time of observation.

30 = Slight or moderate duststorm or sandstorm or sandstorm has decreased during the preceding hour.

31 = Slight or moderate duststorm or sandstorm, no appreciable change during the preceding hour.

32 = Slight or moderate duststorm or sandstorm has begun or has increased during the preceding hour.

33 = Severe duststorm or sandstorm has decreased during the preceding hour.

34 = Severe duststorm or sandstorm, no appreciable change during the preceding hour.

35 = Severe duststorm or sandstorm has begun or has increased during the preceding hour.

36 = Slight or moderate drifting snow generally low (below eye level) less than 6 feet.

37 = Heavy drifting snow (below eye level) less than 6 feet.
38 = Slight or moderate blowing snow generally high (above eye level) 6 feet or more.
39 = Heavy blowing snow generally high (above eye level) 6 feet or more.
40 = Fog or ice fog at a distance at the time of observation, but not at the ship during the preceding hour, the fog or ice fog extending to a level above that of the observer.
41 = Fog or ice fog in patches.
42 = Fog or ice fog, sky visible has become thinner during the preceding hour.
43 = Fog or ice fog, sky invisible has become thinner during the preceding hour.
44 = Fog or ice fog, sky visible no appreciable change during the preceding hour.
45 = Fog or ice fog, sky invisible no appreciable change during the preceding hour.
46 = Fog or ice fog, sky visible has begun or become thicker during the preceding hour.
47 = Fog or ice fog, sky invisible has begun or become thicker during the preceding hour.
48 = Fog, depositing rime, sky visible.
49 = Fog, depositing rime, sky invisible.
50 = Drizzle, not freezing, intermittent slight at time of observation.
51 = Drizzle, not freezing, continuous slight at time of observation.
52 = Drizzle, not freezing, intermittent moderate at time of observation.
53 = Drizzle, not freezing, continuous moderate at time of observation.
54 = Drizzle, not freezing, intermittent heavy (dense) at time of observation.
55 = Drizzle, not freezing, continuous heavy (dense) at time of observation.
56 = Drizzle, freezing, slight.
57 = Drizzle, freezing, moderate or heavy (dense).
58 = Drizzle and rain, slight.
59 = Drizzle and rain, moderate or heavy.
60 = Rain, not freezing, intermittent, slight at time of observation.
61 = Rain, not freezing, continuous, slight at time of observation.
62 = Rain, not freezing, intermittent, moderate at time of observation.
63 = Rain, not freezing, continuous, moderate at time of observation.
64 = Rain, not freezing, intermittent, heavy at time of observation.
65 = Rain, not freezing, continuous, heavy at time of observation.
66 = Rain, freezing, slight.
67 = Rain, freezing, moderate or heavy.
68 = Rain or drizzle and snow, slight.
69 = Rain or drizzle and snow, moderate or heavy.
70 = Intermittent fall of snowflakes.
71 = Continuous fall of snowflakes slight at time of observation.

	<p>72 = Intermittent fall of snowflakes moderate at time of observation. 73 = Continuous fall of snowflakes moderate at time of observation. 74 = Intermittent fall of snowflakes heavy at time of observation. 75 = Continuous fall of snowflakes heavy at time of observation. 76 = Ice prisms (with or without fog). 77 = Snow grains (with or without fog). 78 = Isolated star like snow crystals (with or without fog). 79 = Ice pellets, type (a) (sleet, US definition) 80 = Rain shower(s), slight. 81 = Rain shower(s) moderate or heavy. 82 = Rain shower(s), violent. 83 = Shower(s) of rain and snow mixed, slight. 84 = Shower(s) or rain and snow mixed, moderate or heavy. 85 = Snow shower(s), slight. 86 = Snow shower(s), moderate or heavy. 87 = Slight showers of snow pellets or ice pellets, type (b), with or without rain or rain and snow mixed. 88 = Moderate or heavy showers of snow pellets or ice pellets (b), with or without rain or rain and snow mixed. 89 = Slight showers of hail with or without rain or rain and snow mixed, not associated with thunder. 90 = Moderate or heavy showers of hail, with or without rain or rain and snow, slight mixed, not associated with thunder. 91 = Slight rain at time of observation, thunderstorm during preceding hour but not at observation. 92 = Moderate or heavy rain at time of observation, thunderstorm during preceding hour but not at observation. 93 = Slight snow, or rain and snow mixed or hail, at time of observation with thunderstorm during the preceding hour but not at time of observation. 94 = Moderate or heavy snow, or rain and snow mixed, or hail, at time of observation with thunderstorm during the preceding hour but not at time of observation. 95 = Thunderstorm, slight or moderate, without hail, but with rain and/or snow at time of observation. 96 = Thunderstorm, slight or moderate, with hail at time of observation. 97 = Thunderstorm, heavy, without hail but with rain and/or snow at time of observation. 98 = Thunderstorm combined with duststorm or sandstorm at time of observation. 99 = Thunderstorm, heavy, with hail at time of observation.</p>
<p>Past Weather (The period covered by Past Weather is 6 hours for observations at 0000, 0600, 1200 and 1800 GMT and 3 hours for</p>	<p>0 = Cloud covering ½ or less of the sky throughout the appropriate period. 1 = Cloud covering more than ½ of the sky during part of the appropriate period and covering ½ or less during part of the period. 2 = Cloud covering more than ½ of the sky throughout the appropriate period.</p>

observations at 0300, 0900, 1500 and 2100 GMT)	<p>3 = Sandstorm, duststorm or blowing snow.</p> <p>4 = Fog or ice fog or thick haze (US includes thick smoke).</p> <p>5 = Drizzle</p> <p>6 = Rain</p> <p>7 = Snow, or rain and snow mixed.</p> <p>8 = Shower</p> <p>9 = thunderstorm with or without precipitation.</p>
Sea Level Pressure	Sea level pressure measured in millibars
Air Temperature	Air temperature measured in °C
Wet Bulb Temperature	Wet bulb temperature measured in °C
Dew Point Temperature	Dew point temperature measured in °C
Sea Surface Temperature	Sea surface temperature measured in °C
Total Cloud Amount	<p>Fraction of celestial dome covered by all clouds</p> <p>0 = Clear</p> <p>1 = 1 Okta or less, but not zero</p> <p>2-8 = 2-8 Oktas</p> <p>9 = Sky obscured or cloud amount cannot be estimated</p>
Lower Cloud Amount	Fraction of celestial dome covered by all the Low Cloud Type clouds and, if no Low Cloud Type cloud is present, that fraction covered by all the Mid Cloud Type clouds present. See codes for Total Cloud Amount.
Lower Cloud Type	<p>0 = No Stratocumulus, Stratus, Cumulus or Cumulonimbus.</p> <p>1 = Cumulus with little vertical extent and seemingly flattened, or ragged Cumulus other than of bad weather, or both.</p> <p>2 = Cumulus of moderate or strong vertical extent, generally with protuberances in the form of domes or towers, either accompanied or not by other Cumulus or by Stratocumulus, all having their base at the same level.</p> <p>3 = Cumulonimbus, the summits of which, at least partially, lack sharp outlines but are neither clearly fibrous (cirriform) nor in the form of an anvil; Cumulus, stratocumulus or Stratus may also be present.</p> <p>4 = Stratocumulus formed by the spreading out of Cumulus; Cumulus may also be present.</p> <p>5 = Stratocumulus not resulting from the spreading out of Cumulus.</p> <p>6 = Stratus in a more or less continuous sheet or layer, or in ragged shreds, or both, but no Stratus fractus of bad weather.</p> <p>7 = Stratus fractus of bad weather (generally existing during precipitation and a short time before and after) or Cumulus fractus of bad weather, or both (pannus), usually below Altostratus or Nimbostratus.</p> <p>8 = Cumulus and Stratocumulus other than that formed from the spreading out of Cumulus; the base of the Cumulus is at a different level from that of the Stratocumulus.</p> <p>9 = Cumulonimbus, the upper part of which is clearly fibrous (cirroform), often in the form of an anvil; either accompanied or not by Cumulonimbus without anvil or fibrous upper part by Cumulus, Stratocumulus, Stratus or pannus.</p>

	- = Stratocumulus, Stratus, Cumulus and Cumulonimbus invisible owing to darkness, fog, blowing dust or sand, or other similar phenomena.																										
Cloud Height	<p>Height above sea surface of the base of the lowest cloud or fragment thereof:</p> <table border="1"> <thead> <tr> <th>Approximate Height in Feet</th> <th>Height in Metres</th> </tr> </thead> <tbody> <tr> <td>0 = 0-149</td> <td>0-49</td> </tr> <tr> <td>1 = 150-299</td> <td>50-99</td> </tr> <tr> <td>2 = 300-599</td> <td>100-199</td> </tr> <tr> <td>3 = 600-999</td> <td>200-299</td> </tr> <tr> <td>4 = 1000-1999</td> <td>300-599</td> </tr> <tr> <td>5 = 2000-3499</td> <td>600-999</td> </tr> <tr> <td>6 = 3500-4999</td> <td>1000-1499</td> </tr> <tr> <td>7 = 5000-6499</td> <td>1500-1999</td> </tr> <tr> <td>8 = 6500-7999</td> <td>2000-2499</td> </tr> <tr> <td>9 = >8000 or no clouds</td> <td>>2500 or no clouds</td> </tr> <tr> <td>- = unknown</td> <td></td> </tr> <tr> <td>/ = Height of base of cloud not known or base of clouds at a level higher than that of the station.</td> <td></td> </tr> </tbody> </table>	Approximate Height in Feet	Height in Metres	0 = 0-149	0-49	1 = 150-299	50-99	2 = 300-599	100-199	3 = 600-999	200-299	4 = 1000-1999	300-599	5 = 2000-3499	600-999	6 = 3500-4999	1000-1499	7 = 5000-6499	1500-1999	8 = 6500-7999	2000-2499	9 = >8000 or no clouds	>2500 or no clouds	- = unknown		/ = Height of base of cloud not known or base of clouds at a level higher than that of the station.	
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Mid Cloud Type	<p>0 = No Altocumulus, Altostratus or Nimbostratus.</p> <p>1 = Altostratus, the greater part of which is semi-transparent; though this part of the sun or moon may be weakly visible, as through ground glass.</p> <p>2 = Altostratus, the greater part of which is sufficiently dense to hide the sun or moon, or nimbostratus.</p> <p>3 = Altostratus, the greater part of which is semi-transparent; the various elements of the cloud change only slowly and are all at a single level.</p> <p>4 = Patched (often in the form of almonds or fishes) of Altostratus, the greater part of which is semitransparent; the clouds occur at one or more levels and the elements are continually changing in appearance.</p> <p>5 = Semi-transparent Altostratus in bands, or Altostratus in one or more fairly continuous layers (semitransparent or opaque), progressively invading sky, these Altostratus clouds generally thicken as a whole.</p> <p>6 = Altostratus resulting from the spreading out of Cumulus (or Cumulonimbus).</p> <p>7 = Altostratus in two or more layers, usually opaque in places, and not progressively invading the sky; or opaque layer of Altostratus, not progressively invading the sky; or Altostratus together with Altostratus or Nimbostratus.</p> <p>8 = Altostratus with sproutings in the form of small towers or</p>																										

	<p>battlements; or Altocumulus having the appearance of cumuliform tufts.</p> <p>9 = Altocumulus of a chaotic sky, generally at several levels.</p> <p>- = Altocumulus, Altostratus and Nimbostratus invisible owing to darkness, fog, blowing dust or sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.</p>																								
High Cloud Type	<p>0 = No Cirrus, Cirrocumulus or Cirrostratus.</p> <p>1 = Cirrus in the form of filaments, strands or hooks, not progressively invading the sky.</p> <p>2 = Dense Cirrus, in patches or entangled sheaves, which usually do not increase and sometimes seem to be the remains of the upper part of a Cumulonimbus; or Cirrus with sproutings in the form of small turrets or battlements, or Cirrus having the appearance of cumuliform tufts.</p> <p>3 = Dense Cirrus, often in the form of an anvil, being the remains of the upper parts of Cumulonimbus.</p> <p>4 = Cirrus in the form of hooks or of filaments, or both, progressively invading the sky; they generally become denser as a whole.</p> <p>5 = Cirrus (often in bands converging towards one point or two opposite points of the horizon) and Cirrostratus, or Cirrostratus alone; in either case, they are progressively invading the sky, and generally growing denser as a whole; the continuous veil extends more than 45 degrees above the horizon, without the sky being totally covered.</p> <p>7 = Veil of Cirrostratus covering the celestial dome.</p> <p>8 = Cirrostratus not progressively invading the sky and not completely covering the celestial dome.</p> <p>9 = Cirrocumulus alone, or Cirrocumulus accompanied by cirrus or both, but Cirrocumulus is predominate. Cirrostratus, invisible owing to darkness, fog, blowing dust or sand or other similar phenomena, or more often because of the presence of a continuous layer of lower clouds.</p> <p>- = Cirrus, Cirrocumulus and Cirrostratus.</p>																								
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Wave Height	The recorded wave height in metres																						
Swell Direction	Same as Wave Direction																						
Swell Period	<p>Same as Period of Waves prior to 1969:</p> <p>2 = 5 seconds or less 3 = 6-7 seconds 4 = 8-9 seconds 5 = 10-11 seconds 6 = 12-13 seconds 7 = 14-15 seconds 8 = 16-17 seconds 9 = 18-19 seconds 0 = 20-21 seconds 1 = over 21 seconds - = calm or period not determined</p> <p>For buoy data this field is average wave period.</p> <p>Beginning January 1, 1968, the code for Period of swell is:</p> <p>0 = 10 seconds 1 = 11 seconds</p>																						

	2 = 12 seconds 3 = 13 seconds 4 = 14 seconds 5 = 5 seconds or less 6 = 6 seconds 7 = 7 seconds 8 = 8 seconds 9 = 9 seconds - = calm or period not determined
Swell Height	The recorded swell height in metres