

## Summary Meteorological Conditions – F/V Mary B Capsize (Jan 8, 2019)

### One day prior (Jan 7, 2019)

- 970 mb low near 40 N/140W
- Front occluding and moving into marine waters next 24 hrs
- Strong offshore press gradient developing night of Jan 7 (Mon) which strengthened Tues/Tues night (Jan 8)
- Strong easterly winds Mon night (Jan 7) and Tues (Jan 8)
  - 25-30 kts (east)
- Winds will turn southerly Tues eve (Jan 8)/Wed morning (Jan 9) with Gales expected Tues night (35-45 kts)
- Seas 10 ft thru midday Tues (Jan 8); then building
  - S-SW swell with seas climbing into teens Tues eve (Jan 8)
  - Seas approaching 20 ft Wed morning (Jan 9)

**Synopsis (Jan 8):** Strong low pressure system approaching with front expected Tues night (Jan 8)/ Wednesday (Jan 9). Strong south winds ahead of the front.

### Observations (Jan 8- Tues)

		Noon	4pm	5pm	6pm	8pm	9pm	10pm	11pm	Mid	9/ 4am
Buoy 50	Winds (kts)			E 14G20	E 15G21		E 13G19	SE 10G16	SSE 15G21	SSE 21G29	SSE 27G37
Buoy 50	Seas (ft)	10	11		16	15.7	16.7	16.7	17.1	20.3	
CMAN - Newport	Winds	E 13	E 11	E 11	E 15G	10G13	13G18	11G14	10G11	5G6	

### Lunar Data:

Moonrise (Jan 8): 938 am PT

Moonset (Jan 8): 736 pm PT

New moon on Jan 6. Moon beginning to wax on Jan 8.

### Warnings/Advisories

CWF/MWW (Jan 8, 243 am issuance)

- Warning/Advisories:
  - Outer waters
    - SCA for winds and seas – (winds until 4pm, seas 10 am-4pm)
    - Gale warning outer waters (4pm Tues to 10 pm Wed)
    - ESE winds 15-25 kts, gusts 30 to 35 kts thru 4pm, then rising 20-30 kts with gusts 40 kts Tues eve/night
    - SCA for seas > 10 ft mid-day Tues, building to near 20 ft Wed
  - Inner waters
    - SCA for winds and seas – (winds until 4pm, seas 10 am-4pm)
    - Gale watch inner waters (4pm Tues to 10 pm Wed)
    - ESE winds 15-25 kts, gusts 30 kts thru 4pm, then rising 20-30 kts with gusts 40 kts Tues eve/night
    - SCA for Seas > 10 ft mid-day Tues, building to near 20 ft Wed
  - SCA for Rough Columbia Bar (3pm Tue afternoon to 4am Wed morning)
    - Seas 5-7 ft, becoming 8 to 11 ft Tues night
    - Ebb @ 615 am Tues, seas 8 ft
    - Ebb @ 6pm Tues seas near 12 ft.
  - Rain

#### CWF/MWW (Jan 8, 230 pm issuance)

- Warning/Advisories:
  - Outer waters
    - SCA for winds and seas until 4 pm Tues
    - Gale warning until 10 pm Wed
    - ESE winds 15-25 kts, gusts 30 to 35 kts, then becoming south 25-35 kts with gusts 45 kts Tues eve/night
    - SCA for seas > 10 ft Tues afternoon, building to 20-22 ft Wed am
  - Inner waters
    - SCA for winds and seas until 10 am Wed
    - Gale warning 10 am to 10 pm Wed
    - ESE winds 15-25 kts, gusts 30 kts Tues night, then becoming south 20-30 kts with gusts 40 kts midday Wed
    - SCA for Seas > 10 ft mid-day Tues, building to near 20 ft Wed
  - SCA for Rough Columbia Bar until 4pm Wed
    - Seas 5 ft, becoming 8 to 11 ft Tues night, building to 15 to 16 ft Wed am thru Wed pm
    - Ebb @ 6pm Tues seas near 12 ft.
    - Ebb @ 645 am Wed, seas 18 ft
  - Rain

#### CWF/MWW (Jan 8, 757 pm issuance)

- Warning/Advisories:
  - Outer waters

- Gale warning until 10 pm Wed
- South 25-35 kts with gusts 45 kts Tues night
- SCA for seas > 10 ft Tues, building to 20-24 ft Wed am through midday
- Inner waters
  - SCA for winds and seas until 10 am Wed
  - Gale warning 10 am to 10 pm Wed
  - ESE winds 15-25 kts, gusts 30 kts Tues night, then becoming south 20-30 kts with gusts 40 kts midday Wed
  - SCA for Seas > 10 ft mid-day Tues, building to near 20 ft Wed
- SCA for Rough Columbia Bar until 4am Thu
  - Seas 8-10 ft, building overnight to 19 to 21 ft toward Wed am, then decreasing to 11 to 13 ft Thurs am
  - Ebb @ 645 am Wed, seas 18 ft
  - Ebb @ 630 pm Wed seas near 20 ft.
- Rain

