

Weather Worksheet, Checklists, and Maps

These checklists, maps, and worksheet are designed to help collect weather, sea, and tidal current information to aid in making a GO or NoGO evaluation of conditions for a day's planned passage.



WAGG®NER Weather/GO-NoGO Checklist

Passa	age Planning					
	Enter the day's passage information on the Worksheet page.					
	Enter the day's starting, ending, and intermediate locations along with planned times,					
	and direction of travel (Heading).					
	Determine Distance, Speed, and Time and a rough course for each leg of the trip					
	passage.					
	Enter the times for sunrise and sunset.					
Weatl	Weather Planning					
	Determine the weather reporting stations and forecast areas relevant to the passage					
	(see the map) and enter on the Worksheet.					
	Gather forecast weather and enter on Worksheet, see the Weather Planning pages.					
	Check the weather depiction charts for "Current; 24; 48; 72; and 96 hour" forecasts					
	Gather Buoy and Lighthouse weather and sea conditions observations for stations and					
	enter on Worksheet.					
	Consult supplemental weather information sources.					
Tides	and Current Flow					
	Enter Name & Location for any time-dependent "Gates" such as tidal current rapids.					
	Enter predicted tidal current direction and speed for each location.					
	What is the maximum current for the day?					
	What is the best timing for Gates or the general currents?					
	Enter the Lunar Cycle Stage (NEW FULL WAXING WANING) on the Worksheet.					
	See Ports & Passes, or Canadian Tides & Currents, or NOAA Tide Predictions					
GO NoGO Evaluation and Decision						
	Are forecast weather and sea conditions within your crew and your vessel's limits?					
	Will conditions improve or deteriorate?					
	Check wind direction in relation to direction of travel. Straight line route isn't always the					
	best option. Are longer, but more protected routes a better option?					
	Are you prepared to clear U.S. or Canada Customs?					
	Is there a wind against wave or current situation? Will it change with the tide?					
	What is the status of restricted areas? (WG or other controlled waters)					
	What is the optimal time for departure and arrival?					
	Vessel Traffic System frequencies to monitor					

Fail-Safe Contingency Plans

☐ Alternate plan or destination in case of unforeseen situations?



Worksheet

Day's Passag	je:			
Date:	From:		То:	
Sunrise:	Sunset:	Lunar (Cycle Stage	
Location		Time	Heading	Tidal Current Flood/Ebb
From		1	1100001119	11000.200
То				
		I		
Weather Fore	cast Synopsis Notes:			
Forecast by F	Reporting Station in Directi	on of Day's P	assage:	
1				
_				
3.				
T				
Lightstation a	and Buoy Reports:			
1	Wind Dir & Speed		Sea Cond	ition
	Wind Dir & Speed			
	Wind Dir & Speed			
4	Wind Dir & Speed		Sea Cond	ition

WAGGONER Weather/GO-NoGO Checklist

Weather Planning

Weather Planning

	Determine the weather reporting stations and forecast areas relevant to the passage				
	(see the map) and enter on the Weather Worksheet.				
	Check the weather depiction charts for "Current; 24; 48; 72; and 96 hour" forecasts				
Ц	Gather Buoy and Lighthouse weather and sea conditions observations for stations and				
	enter on Worksheet				
Colle	cting Weather Forecasts and Observed Weather Information				
	Via Internet				
	Environment Canada <u>weather.gc.ca/marine/</u>				
	U.S. NOAA National Weather Svc. <u>www.weather.gov/sew</u>				
	National Data Buoy Center <u>www.ndbc.noaa.gov</u>				
	Ocean Prediction Center <u>www.opc.ncep.noaa.gov</u> or <u>ocean.weather.gov</u>				
	Via Telephone				
	Seattle 206-526-6087				
	Vancouver 604-666-3655				
	Victoria 250-363-6880 or 250-363-6492				
	Comox 250-339-0748				
	Alert Bay 250-974-5305 Prince Rupert 250-624-9009				
	Tofino 250-726-3415				
	Via VHF Radio Continuous Broadcasts – see following page for Format & Order				
	WX1 Seattle, Neah Bay, Cape Lazo, Alert Bay, Eliza Dome, Klemtu				
	WX2 Saltspring Island, Nootka, Calvert Island, Mt. Gil, Dundas Island				
	WX3 Olympia, Mt. Helmcken, Bowen Island WX4 Puget Sound, San Juan Islands				
	WX4 Puget Sound, San Juan Islands WX8/21B Mt. Park, Discover Mtn., Holberg, Mt. Ozzard, Mt. Hays, Kitimat				
	VVXO/21B Wit. 1 drk, Biocovor With, Holberg, Wit. Ozzara, Wit. Hayo, Kilimat				
	Supplemental Information Sources				
	 Apps – Windy, Predictwind, Sailflow 				
	 Satellite Service – SiriusXM, Garmin InReach 				
Colle	cting Weather Buoy Information				
	Via Internet				
_	U.S. NOAA National Weather Svc. <u>www.weather.gov/sew</u>				
	National Data Buoy Center www.ndbc.noaa.gov				
_	•				
	Via Telephone (Have Buoy numbers from maps on pages 5&6 ready for entry)				
	Dial-A-Buoy 888-701-8992				

Weather Planning

Collecting Lightstation Reports

Hourly reports originate from observations provided by Canadian Coast Guard staffed lightstations. Reports are normally taken during daylight hours. Reports generally conform to the format and coding below. The "Issued at" field at the top of the report indicates the Universal Time Coordinated (UTC) and date of the observation. (subtract 8 hours, or 7 hours during daylight savings, for local time)

☐ Via Internet - Environment Canada <u>weather.gc.ca/marine/</u>

On the area forecast page, click on "**Weather Conditions**" tab, then click on "**Lightstations Reports**" in the **Legend** box near the bottom of the page.

Format and Order of Report:

Name|Sky|Visibility|Weather|Wind Direction|Wind Speed|Sea State|Swell|Remarks

Sample Reports: CARMANAH OVC 15 RW E 22G30 2FT CHP

MCINNES CLDY 15 CLM 1FT CHP LO SW

BOAT BLUFF PC 15 NW04 RPLD

Name: Station Identification Name

Sky: Sky Conditions – CLR (clear); CLDY (cloudy); PT CLDY (party cloudy); X (obscured); -X (partially obscured

Visibility: Visibility measured in miles

Weather: Weather Elements – R (rain); RW (rain showers); S (snow); SW (snow showers); -L (drizzle); F (fog); T (thunder); A (hail);

Wind Direction: Eight points of the compass - N, S, E, W, NE, NW, SE, SW

Wind Speed: wind speed and sometimes gusts in knots; or CLM for calm.

Sea State: Wave height reported in feet; and sea state - SMTH (smooth); RPLD (ripped); CHP (chop); MOD (moderate); RUF (rough)

Swell: Direction and state of swell – LO (0 to 2 meters); MOD (2 to 4 meters); and HVY (greater than 4 meters)

Remarks: Various comments that are usually abbreviated such as (OCNL RW- for occasional light rain shower)

VHF Weather Broadcasts Report Format and Order of Presentation

U.S. NOAA National Weather Service

1. Introduction

- Name of forecast area
 - Puget Sound and Hood Canal
 - Admiralty Inlet
 - Northern Inland Waters (including San Juan Islands)
 - East Entrance Strait of Juan de Fuca
 - Strait of Juan de Fuca
 - Pacific Waters from Environment Canada for West Coast Vancouver Island
- Date and time the forecast was prepared

2. Marine Synopsis

An overview for an area, delivered by

3. Hourly Observations Roundup

Weather conditions including wind speed (in knots), wind direction and barometric pressure (in millibars)

4. Marine Observations and Buoy Reports

Wind and sea conditions

5. Marine Forecast by area of Washington

- Forecast winds, seas, and sky conditions for current and next three
- Special advisories such as Small Craft and Gale Warnings

Environment Canada

1. Introduction

- Name of forecast area
 - Juan de Fuca Strait East Entrance
 - Juan de Fuca Strait Central
 - Haro Strait
 - Strait of Georgia South of Nanaimo Strait of Georgia North of Nanaimo

 - Howe Sound
 - Johnstone Strait
- Date and time the forecast was prepared
- Warnings

2. Weather Summary

Summary by area

3. Marine Weather Forecast Statement

- Forecast winds, seas, and sky conditions for Today, Tonight, and Tomorrow
- Special advisories such as Small Craft and Gale Warnings

4. Technical Marine Synopsis

- Weather systems summary and position
- Forecast weather systems 24 hour movement

5. Extended Marine Forecast for Pacific Water

- Delivered by area (see list above)
- Forecast conditions for 2 5 days

6. Automated Reports

Weather conditions from automatic reporting stations.

7. Ocean Buoy Reports

 Wind direction, speed, combined seas, and barometric pressure from buoys.

8. Lighthouse Weather Reports

• Wind and sea conditions reported and updated hourly by lighthouse operators.

9. Local Marine Weather Reports

10. Special Reports

Special notices, such as status of Military Exercise Areas – Like Whisky Golf (WG)

Southern BC & Washington Weather Stations, Areas, and Buoys



SE Alaska & Northern BC Coast Weather Stations, Areas, and Buoys

