

NATIONAL WEATHER SERVICE ALASKA REGION SUPPLEMENT 04-2002

APPLICABLE TO NWSI 10-310

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Operations and Services

Marine and Coastal Weather Services, NWSPD 10-3

Coastal Marine Forecast Services, NWSI 10-310

ALASKA COASTAL MARINE FORECAST SERVICES

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SUMMARY OF REVISIONS: This supplement supersedes Alaska Region Supplement 04-2002, Alaska Coastal Marine Forecast Services, dated February 18, 2005, and filed with NWSI 10-310.

The following changes were made in this issuance:

1. Coded Marine Forecast sample removed.
2. Instructions for the Surf Zone Forecast issued by Weather Service Office (WSO) Barrow added.
3. Forecast examples updated.

//Signed//

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Regional Director

November 12, 2009

Date

Alaska Coastal Marine Forecast Services

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1. Purpose. The coastal marine forecast service procedures contained within this supplement augment the procedures in NWSI 10-310, Coastal Marine Forecast Services.

2. Coastal Waters Forecasts (CWF).

2.2 Issuance Guidelines. Weather Forecast Offices (WFOs) issue CWFs out to five days for expected weather conditions within their marine forecast areas of responsibility. Some WSOs issue a CWF for selected bays and passages in their local areas. The WFO adapts the CWF for adjacent marine area to account for the effects of local topography and bathymetry.

2.3 Technical Description.

2.3.1 Content. Refer to NWSI 10-310 as well as examples shown in the Appendix for basic guidance on CWF content. The content should include wind, sea state, significant weather (when necessary) including visibility, precipitation and/or freezing spray. In addition, the following guidelines should be observed:

- a. Ranges for wind speed and wave height are not permitted. Single values representing predominant conditions are used. Forecasters should round speeds to the nearest 5 KT.
- b. If wind gusts are forecast, only one gust value may be included in each period.
- c. Visibility is only included for forecast conditions of 1 nautical mile (nm) or less.
- d. Forecasts should highlight meaningful trends and significant changes to ensure High Frequency and Very High Frequency broadcasts of these products are concise and understandable. Thus, forecast changes within periods should be kept to a minimum. (Guidelines provided in Table 1.)

Marine Weather Parameter	Expression in Forecast
WIND < 24 kt	No deterministic changes mentioned, unless increasing to gale. If increasing to gale, only include trend to highest value (e.g., INCREASING TO 40 KT). Note: For all wind speeds, if change is less than threshold specified above, use a trend to or from the highest value (e.g., SOUTH WIND 15 KT DIMINISHING).
WIND 24-49 kt	Include speed changes of 10 kt or more, unless increasing to gale or storm category. In that case, only include trend to highest value (e.g., INCREASING TO 40 KT).
WIND ≥ 50 kt	Include wind speed changes of 20 kt or more (e.g., EAST WIND 50 KT INCREASING TO 70 KT).
Wind direction	Include changes of 90 degrees or more.
Waves ≥ 6 ft	Include changes of 25% or greater.
Waves < 6 ft	Include trend from highest value (subsiding or building).
Weather	If probability is 65% or greater, a categorical forecast of precipitation is mentioned (e.g., RAIN, SNOW). No expressions of probability are included (e.g., LIKELY, CHANCE OF). Only one change or trend allowed per period (e.g., RAIN ENDING).
Visibility	Only one trend allowed per period (improving from or deteriorating to lowest condition).

Table 1 – Guidelines for Composition of the Coastal Waters Forecast

Exception: For waters with a large recreational marine community, such as the Inside Passage or Prince William Sound, or near large subsistence marine communities, like much of Northern Alaska, changes more minor than those outlined in Table 1 may be included based upon expressed customer needs and in accordance with all relevant dissemination restrictions.

2.3.2 CWF – Forecast Parameters.

- a. Seas. NWSI 10-310 allows for the use of descriptive words such as CHOPPY or ROUGH to characterize the sea state in regionally specified bays, inlets, harbors, estuaries, etc. In the Alaska Region (AR), these descriptive words may be used in marine forecasts for waters with a large number of recreational users, such as the Prince William Sound area. These areas are to be specified by WFOs in coordination with local customers and partners.

2.3.3 Format. The CWF product issued by WFOs and WSOs will follow the format prescribed in NWSI 10-310. WFOs should use standard abbreviations in the text of the CWF i.e., NW instead of NORTHWEST to aid in dissemination.

Exception: Similar to the Nearshore Marine Forecast issued in the Great Lakes, CWFs issued by WSOs will not contain a synopsis. See format in Figure 1.

```
(WMO ID) (ISSUANCE DATE TIME)
(AWIPS ID)

MARINE FORECAST FOR (AREA DESCRIPTION)
NATIONAL WEATHER SERVICE (CITY) (STATE)
(VALID TIME) AM/PM (LOCAL TIME ZONE) (DAY) (DATE)

(AREAL UGC CODE[S])-(EXPIRATION TIME)-
(FORECAST AREAL DESCRIPTOR[S])
(VALID TIME) AM/PM (LOCAL TIME ZONE) (DAY) (DATE)

...HEADLINE (If needed)...

.PERIOD 1...
.PERIOD 2...
.PERIOD 3...
.PERIOD 4...
.PERIOD 5...
.PERIOD 6 (Optional period for the morning issuance)...
.PERIOD 7 (Optional period for the afternoon issuance)...
.(DAY 4)...
.(DAY 5)...
$$
FORECASTER NAME (Optional)
```

Figure 1 – Coastal Waters Format for WSOs

3. Surf Zone Forecast (SRF).

3.1 Issuance. WSO Barrow will issue the SRF daily by 0500 (Alaska Local Time), valid for 24 hours. It should be issued when the near-shore waters are sufficiently ice-free (normally July 1 to October 31) to generate waves and end when the ice pack re-develops in fall. The SRF is to be issued on a daily basis only, but may be updated at the WSOs discretion and in collaboration with WFO Fairbanks.

3.2 Format. AR offices will use the format as indicated in Figure 2. See Appendix A for an example SRF.

3.3 Content. SRFs issued by AR offices will contain elements for the today and tonight periods. If conditions are expected to be significantly different between the today and tonight period, these differences should be described. Otherwise, a single description of the element for both the today and tonight periods can be provided. The SRF will contain the following elements:

- a. Wind. Provide wind forecasts in mph and direction to eight points of the compass.
- b. Surf Height. Approximate height of breaking waves in feet.
- c. Surf Temperature. Specify appropriate range (degrees F).
- d. Tide Information. Specify the height (feet) and time of day of the high and low tides for the today and tonight periods in chronological order. In most cases, there will be four tides mentioned.

```
(WMO ID) (ISSUANCE DATE TIME)
(AWIPS ID)

SURF ZONE FORECAST
NATIONAL WEATHER SERVICE (CITY) (STATE)
(VALID TIME) AM/PM (LOCAL TIME ZONE) (DAY) (DATE)

(AREAL UGC CODE[S])-(EXPIRATION TIME)-
(FORECAST AREAL DESCRIPTOR[S])
(VALID TIME) AM/PM (LOCAL TIME ZONE) (DAY) (DATE)

...HEADLINE (If needed)...

.TODAY AND TONIGHT...

WIND... (Specify in direction and speed (mph))
SURF HEIGHT... (Specify in feet)
SURF TEMPERATURE... (Specify in degrees F)

.TIDES... (Occurring from 5AM to 5AM)
High Tide (height in feet)at(time) AKDT
Low Tide (height in feet)at(time) AKDT
High Tide (height in feet)at(time) AKDT
Low Tide (height in feet)at(time) AKDT

(note: the first tide mentioned may be
low tide instead of high tide depending
on which occurs first)

$$
FORECASTER NAME (Optional)
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Figure 2 – Surf Zone Format for WSOs

APPENDIX A
Examples of Coastal NWS Alaska Forecasts

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1. Coastal Waters Forecast.

1.1 Example of WFO Juneau Coastal Waters Forecast.

FZAK52 PAJK 091230
CWFAEG

COASTAL WATERS FORECAST FOR SOUTHEAST ALASKA
NATIONAL WEATHER SERVICE JUNEAU AK
400 AM AKST FRI JAN 9 2009

SOUTHEAST ALASKA COASTAL WATERS FROM DIXON ENTRANCE TO
CAPE SUCKLING OUT 100 NM

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION
EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST
ONE-THIRD OF THE COMBINED WINDWAVE AND SWELL HEIGHT.

PKZ099-100100-

.SYNOPSIS FOR OUTSIDE WATERS...

A 982 MB LOW IN THE N CENTRAL GULF WILL SLOWLY WEAKEN TO 994 MB
S OF YAKUTAT BY EARLY FRI EVENING. A WEAKENING WEATHER FRONT
ASSOCIATED WITH THE LOW WILL CONTINUE TO DRIFT NE ACROSS THE
EASTERN GULF AND SE AK THROUGH SAT MORNING.

\$\$

PKZ041-100100-

DIXON ENTRANCE TO CAPE DECISION-
400 AM AKST FRI JAN 9 2009

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...SW WIND 25 KT. SEAS 17 FT.

.TONIGHT...SW WIND 25 KT. SEAS 21 FT. W
SWELL IN THE EVENING.

.SAT...S WIND 15 KT. SEAS 19 FT. W SWELL.

.SAT NIGHT...S WIND 30 KT. SEAS 15 FT. RAIN.

.SUN...S WIND 30 KT. SEAS 14 FT. RAIN.
.MON...SW WIND 20 KT. SEAS 19 FT.
.TUE...S WIND 20 KT. SEAS 15 FT.

\$\$

PKZ042-100100-
CAPE DECISION TO CAPE EDGE CUMBE-
400 AM AKST FRI JAN 9 2009

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...S WIND 30 KT. SEAS 17 FT.
.TONIGHT...SW WIND 25 KT. SEAS 21 FT.
.SAT...S WIND 15 KT. SEAS 18 FT. SW SWELL.
.SAT NIGHT...SW WIND 30 KT. SEAS 15 FT. RAIN.
.SUN...S WIND 30 KT. SEAS 15 FT. RAIN.
.MON...SW WIND 20 KT. SEAS 18 FT.
.TUE...S WIND 25 KT. SEAS 14 FT.

\$\$

PKZ043-100100-
CAPE EDGE CUMBE TO CAPE FAIRWEATHER-
400 AM AKST FRI JAN 9 2009

...SMALL CRAFT ADVISORY THROUGH TONIGHT...

.TODAY...S WIND 30 KT. SEAS 18 FT. SNOW WITH RAIN IN THE MORNING.
.TONIGHT...SW WIND 25 KT. SEAS 19 FT. SW SWELL.
.SAT...S WIND 15 KT. SEAS 17 FT. SW SWELL.
.SAT NIGHT...SW WIND 20 KT. SEAS 13 FT. SW SWELL. RAIN.
.SUN...S WIND 30 KT. SEAS 14 FT. RAIN.
.MON...SW WIND 20 KT. SEAS 15 FT.
.TUE...S WIND 25 KT. SEAS 13 FT.

\$\$

PKZ051-100100-
CAPE FAIRWEATHER TO ICY CAPE-
400 AM AKST FRI JAN 9 2009

...GALE WARNING THROUGH TONIGHT...

.TODAY...E WIND 35 KT. GUSTS TO 60 KT OUT OF INTERIOR BAYS AND
PASSES. SEAS 18 FT. SNOW.
.TONIGHT...NE WIND 35 KT BECOMING S 25 KT LATE. OUT OF INTERIOR
BAYS AND PASSES...GUSTS TO 55 KT IN THE EVENING. SEAS 17 FT
SUBSIDING TO 15 FT LATE.
.SAT...SE WIND 15 KT. SEAS 15 FT. SW SWELL.
.SAT NIGHT...SE WIND 15 KT. SEAS 11 FT. SW SWELL. RAIN.
.SUN...SE WIND 30 KT. SEAS 13 FT. RAIN.
.MON...S WIND 25 KT. SEAS 14 FT.
.TUE...SE WIND 25 KT. SEAS 13 FT.

\$\$

PKZ052-100100-
ICY CAPE TO CAPE SUCKLING-
400 AM AKST FRI JAN 9 2009

...GALE WARNING THIS MORNING...

.TODAY...E WIND 35 KT BECOMING N 25 KT IN THE AFTERNOON. SEAS 18 FT. SNOW IN THE MORNING.
.TONIGHT...N WIND 25 KT BECOMING W. SEAS 15 FT. SW SWELL.
.SAT...NE WIND 15 KT. SEAS 12 FT. SW SWELL.
.SAT NIGHT...NE WIND 15 KT. SEAS 9 FT. SW SWELL.
.SUN...SE WIND 30 KT. SEAS 13 FT. RAIN.
.MON...S WIND 25 KT. SEAS 15 FT.
.TUE...SE WIND 30 KT. SEAS 14 FT.

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1.2 Example of WFO Fairbanks Coastal Waters Forecast.

FZAK51 PAFG 071103
CWFNSB

COASTAL WATERS FORECAST FOR ARCTIC ALASKA
NATIONAL WEATHER SERVICE FAIRBANKS AK
303 AM AKDT TUE OCT 7 2008

ARCTIC ALASKA COASTAL WATERS OUT 100 NM

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION EXPECTED. SEA FORECASTS REPRESENT THE AVERAGE OF THE HIGHEST ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ298-100045-
303 AM AKDT TUE OCT 7 2008
.SYNOPSIS FOR ARCTIC COAST...
A 978 MB LOW NORTH OF BANKS ISLAND TUE MORNING WILL MOVE SLOWLY NORTH. THE EFFECTS OF THE LOW ON ARCTIC COASTAL WATERS WILL DIMINISH AS HIGH PRESSURE BUILDS EASTWARD OVER THE CHUKCHI SEA TUE NIGHT THEN TO THE BEAUFORT SEA WED AND WED NIGHT.

\$\$

PKZ225-100045-
CAPE THOMPSON TO CAPE BEAUFORT-
303 AM AKDT TUE OCT 7 2008

.TODAY...N WIND 20 KT. SEAS 7 FT.
.TONIGHT...N WIND 15 KT. SEAS 6 FT.
.WED...NE WIND 10 KT. SEAS 6 FT.
.WED NIGHT...E WIND 10 KT. SEAS 5 FT SUBSIDING.
.THU...EAST WIND 15 KT. SEAS 3 FT.
.THU NIGHT...NE WIND 30 KT. SEAS 8 FT. FREEZING SPRAY.
.FRI...NE WIND 30 KT. SEAS 13 FT.
.SAT...E WIND 25 KT. SEAS 10 FT.

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PKZ230-100045-
CAPE BEAUFORT TO POINT FRANKLIN-
303 AM AKDT TUE OCT 7 2008

.TODAY...N WIND 15 KT. SEAS 6 FT.

.TONIGHT...N WIND 15 KT. SEAS 4 FT.
.WED...N WIND 10 KT. SEAS 4 FT. FOG.
.WED NIGHT...NE WIND 10 KT. SEAS 3 FT.
.THU...NE WIND 15 KT. SEAS 4 FT.
.THU NIGHT...NE WIND 20 KT. SEAS 6 FT. HEAVY FREEZING SPRAY.
.FRI...NE WIND 30 KT. SEAS 12 FT.
.SAT...NE WIND 25 KT. SEAS 9 FT.

\$\$

PKZ235-100045-
POINT FRANKLIN TO CAPE HALKETT-
303 AM AKDT TUE OCT 7 2008

...SMALL CRAFT ADVISORY IN EFFECT FROM THIS MORNING THROUGH EARLY
WEDNESDAY MORNING...

.TODAY...NW WIND 15 KT INCREASING TO 25 KT. SEAS 9 FT.
FREEZING SPRAY.
.TONIGHT...N WIND 25 KT. SEAS 9 FT. FREEZING SPRAY.
.WED...N WIND 15 KT. SEAS 7 FT SUBSIDING TO 5 FT.
.WED NIGHT...NE WIND 5 KT. SEAS 3 FT.
.THU...E WIND 10 KT. SEAS 3 FT.
.THU NIGHT...E WIND 20 KT. SEAS 5 FT. HEAVY FREEZING SPRAY.
.FRI...NE WIND 30 KT. SEAS 13 FT.
.SAT...NE WIND 25 KT. SEAS 10 FT.

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PKZ240-100045-
CAPE HALKETT TO FLAXMAN ISLAND-
303 AM AKDT TUE OCT 7 2008

...HEAVY FREEZING SPRAY WARNING IN EFFECT THROUGH EARLY WEDNESDAY
MORNING...
...SMALL CRAFT ADVISORY IN EFFECT THROUGH EARLY WEDNESDAY
MORNING...

.TODAY...W WIND 30 KT. SEAS 9 FT. HEAVY FREEZING SPRAY.
.TONIGHT...NW WIND 30 KT. SEAS 9 FT. HEAVY FREEZING SPRAY.
.WED...N WIND 20 KT. SEAS 8 FT. HEAVY FREEZING SPRAY.
.WED NIGHT...E WIND 5 KT. SEAS 5 FT SUBSIDING.
.THU...E WIND 10 KT. SEAS 3 FT.
.THU NIGHT...E WIND 20 KT. SEAS 5 FT. HEAVY FREEZING SPRAY.
.FRI...E WIND 30 KT. SEAS 11 FT.
.SAT...NE WIND 25 KT. SEAS 9 FT.

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PKZ245-100045-
FLAXMAN ISLAND TO DEMARCATION POINT-
303 AM AKDT TUE OCT 7 2008

...GALE WARNING IN EFFECT THROUGH EARLY WEDNESDAY MORNING...
...HEAVY FREEZING SPRAY WARNING IN EFFECT THROUGH EARLY WEDNESDAY
MORNING...

.TODAY...W WIND 35 KT. SEAS 10 FT. HEAVY FREEZING SPRAY.
.TONIGHT...W WIND 35 KT. SEAS 10 FT. HEAVY FREEZING SPRAY.
.WED...W WIND 30 KT DECREASING TO 20 KT. SEAS 10 FT. HEAVY FREEZING SPRAY.

.WED NIGHT...W WIND 10 KT BECOMING E. SEAS 6 FT SUBSIDING TO 2 FT.
.THU...E WIND 15 KT. SEAS 4 FT.
.THU NIGHT...E WIND 25 KT. SEAS 6 FT. HEAVY FREEZING SPRAY.
.FRI...E WIND 35 KT. SEAS 10 FT.
.SAT...W WIND 25 KT. SEAS 8 FT.

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1.3 Example of WFO Anchorage Coastal Waters Forecast.

FZAK51 PAFC 040050
CWFAER

COASTAL WATERS FORECAST
NATIONAL WEATHER SERVICE ANCHORAGE ALASKA
400 PM AKST TUE FEB 3 2009

COASTAL WATERS FORECAST FOR THE NORTHERN GULF OF ALASKA COAST
UP TO 100 NM OUT INCLUDING KODIAK ISLAND AND COOK INLET.

WIND FORECASTS REFLECT THE PREDOMINANT SPEED AND DIRECTION
EXPECTED. SEA FORECASTS REPRESENT AN AVERAGE OF THE HIGHEST
ONE-THIRD OF THE COMBINED WIND WAVE AND SWELL HEIGHT.

PKZ197-041500-
400 PM AKST TUE FEB 3 2009
.SYNOPSIS FOR THE NORTH GULF COAST+KODIAK ISLAND WATERS+
COOK INLET...

A 990 MB LOW 300 NM SOUTHWEST OF KODIAK CITY MOVES TO 100 NM
SOUTHEAST OF KODIAK CITY AT 986 MB WED MORNING...THEN MOVES ONSHORE
NEAR SITKA AT 1000 MB THU MORNING.

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PKZ120-041500-
CAPE SUCKLING TO GORE POINT
400 PM AKST TUE FEB 3 2009

...HEAVY FREEZING SPRAY WARNING TONIGHT...
...SMALL CRAFT ADVISORY WEDNESDAY AND WEDNESDAY NIGHT...

.TONIGHT...NW WIND 20 KT BECOMING E AFTER MIDNIGHT. GUSTS TO 30
KT OUT OF BAYS AND PASSES IN THE EVENING. SEAS 7 FT. HEAVY FREEZING
SPRAY.

.WED...E WIND 30 KT. SEAS 7 FT. SNOW. FREEZING SPRAY.
.WED NIGHT...E WIND 20 KT IN THE EVENING BECOMING N.
SEAS 8 FT.

.THU...SW WIND 25 KT. SEAS 10 FT.
.THU NIGHT...W WIND 25 KT. SEAS 12 FT.
.FRI...S WIND 15 KT. SEAS 10 FT.
.SAT...NW WIND 25 KT. SEAS 11 FT.
.SUN...W WIND 25 KT. SEAS 10 FT.

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PKZ121-041500-

RESURRECTION BAY
400 PM AKST TUE FEB 3 2009

...HEAVY FREEZING SPRAY WARNING THROUGH WEDNESDAY...

.TONIGHT...N WIND 20 KT. SEAS 3 FT. HEAVY FREEZING SPRAY.
.WED...N WIND 15 KT. SEAS 3 FT. SNOW. HEAVY FREEZING SPRAY.
.WED NIGHT...VARIABLE WIND LESS THAN 10 KT. SEAS 2 FT. SNOW SHOWERS.
.THU THROUGH FRI...VARIABLE WIND 10 KT. SEAS 2 FT.
.SAT...N WIND 10 KT. SEAS 2 FT.
.SUN...VARIABLE WIND LESS THAN 10 KT. SEAS 2 FT.

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PKZ125-041500-
PRINCE WILLIAM SOUND
400 PM AKST TUE FEB 3 2009

.TONIGHT...N WIND 15 KT BECOMING E 10 KT AFTER MIDNIGHT. SEAS 3 FT.
FREEZING SPRAY.
.WED...E WIND 20 KT. SEAS 3 FT. SNOW. FREEZING SPRAY.
.WED NIGHT...NE WIND 10 KT IN THE EVENING BECOMING VARIABLE LESS
THAN 10 KT. SEAS 2 FT. SNOW SHOWERS.
.THU...E WIND 15 KT. SEAS 3 FT.
.THU NIGHT...W WIND 15 KT. SEAS 2 FT.
.FRI...NE WIND 10 KT. SEAS 2 FT.
.SAT...NW WIND 20 KT. SEAS 3 FT.
.SUN...S WIND 20 KT. SEAS 3 FT.

\$\$

PKZ129-041500-
PASSAGE CANAL
400 PM AKST TUE FEB 3 2009

.TONIGHT...W WIND 25 KT DIMINISHING TO 10 KT BY MIDNIGHT. GUSTS TO 35
KT NEAR WHITTIER IN THE EVENING. SEAS 3 FT.
.WED...E WIND 10 KT. SEAS 2 FT.
.WED NIGHT...VARIABLE WIND 10 KT. SEAS 2 FT.
.THU...E WIND 10 KT. SEAS 2 FT.
.THU NIGHT AND FRI...VARIABLE WIND LESS THAN 10 KT. SEAS 2 FT.
.SAT...NW WIND 10 KT. SEAS 2 FT.
.SUN...VARIABLE WIND LESS THAN 10 KT. SEAS 2 FT.

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PKZ130-041500-
BARREN ISLANDS AND KAMISHAK BAY WATERS
400 PM AKST TUE FEB 3 2009

...HEAVY FREEZING SPRAY WARNING TONIGHT...
...SMALL CRAFT ADVISORY THROUGH WEDNESDAY NIGHT...

.TONIGHT...VARIABLE WIND 10 KT BECOMING NE AFTER MIDNIGHT.
SEAS 6 FT. HEAVY FREEZING SPRAY.
.WED...NE WIND 25 KT. SEAS 8 FT. SNOW. FREEZING SPRAY.
.WED NIGHT...VARIABLE WIND 10 KT BECOMING S AFTER MIDNIGHT.
SEAS 10 FT.
.THU AND THU NIGHT...SW WIND 25 KT. SEAS 11 FT.
.FRI...SW WIND 15 KT. SEAS 10 FT.

.SAT...NW WIND 30 KT. SEAS 11 FT.
.SUN...W WIND 35 KT. SEAS 11 FT.

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PKZ132-041500-
SHUYAK ISLAND TO SITKINAK
400 PM AKST TUE FEB 3 2009

...SMALL CRAFT ADVISORY THROUGH WEDNESDAY NIGHT...

.TONIGHT...SE WIND 30 KT. SEAS 7 FT. SNOW AND RAIN SHOWERS. FREEZING
SPRAY.

.WED...N WIND 30 KT. SEAS 11 FT. SNOW.
.WED NIGHT...NW WIND 25 KT. SEAS 11 FT.
.THU...SW WIND 30 KT. SEAS 13 FT.
.THU NIGHT...W WIND 25 KT. SEAS 16 FT.
.FRI...SW WIND 15 KT. SEAS 12 FT.
.SAT...W WIND 30 KT. SEAS 13 FT.
.SUN...W WIND 40 KT. SEAS 14 FT.

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PKZ138-041500-
SHELIKOF STRAIT
400 PM AKST TUE FEB 3 2009

...SMALL CRAFT ADVISORY THROUGH WEDNESDAY...

.TONIGHT...VARIABLE WIND 10 KT BECOMING NE AFTER MIDNIGHT.
SEAS 5 FT. SNOW. FREEZING SPRAY.

.WED...NE WIND 25 KT. SEAS 5 FT. SNOW. FREEZING SPRAY.
.WED NIGHT...VARIABLE WIND 10 KT BECOMING SW AFTER MIDNIGHT.
SEAS 5 FT. FREEZING SPRAY.
.THU AND THU NIGHT...SW WIND 20 KT. SEAS 6 FT.
.FRI...SW WIND 15 KT. SEAS 5 FT.
.SAT...W WIND 25 KT. SEAS 5 FT.
.SUN...W WIND 30 KT. SEAS 6 FT.

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PKZ140-041500-
COOK INLET NORTH OF KAMISHAK BAY AND ENGLISH BAY
400 PM AKST TUE FEB 3 2009

...HEAVY FREEZING SPRAY WARNING THROUGH WEDNESDAY...
...SMALL CRAFT ADVISORY TONIGHT...

.TONIGHT...VARIABLE WIND 10 KT BECOMING NE AFTER MIDNIGHT.
N OF KALGIN ISLAND...VARIABLE WIND 10 KT. SEAS IN ICE FREE WATERS 4
FT. HEAVY FREEZING SPRAY AFTER MIDNIGHT.

.WED...NE WIND 20 KT EXCEPT VARIABLE 10 KT N OF KALGIN ISLAND. SEAS
IN ICE FREE WATERS 4 FT. HEAVY FREEZING SPRAY.
.WED NIGHT...NE WIND 10 KT. SEAS IN ICE FREE WATERS 2 FT.
.THU AND THU NIGHT...SW WIND 15 KT. SEAS IN ICE FREE WATERS 3 FT.
.FRI...NW WIND 10 KT. SEAS IN ICE FREE WATERS 3 FT.
.SAT...NW WIND 20 KT. SEAS IN ICE FREE WATERS 4 FT.
.SUN...NW WIND 25 KT. SEAS IN ICE FREE WATERS 4 FT.

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PKZ141-041500-
KACHEMAK BAY
400 PM AKST TUE FEB 3 2009

...HEAVY FREEZING SPRAY WARNING THROUGH WEDNESDAY...

.TONIGHT...NE WIND 10 KT. SEAS 4 FT. HEAVY FREEZING SPRAY.
.WED...NE WIND 20 KT. SEAS 4 FT. HEAVY FREEZING SPRAY.
.WED NIGHT...NE WIND 10 KT. SEAS 2 FT. FREEZING SPRAY.
.THU AND THU NIGHT...SW WIND 15 KT. SEAS 3 FT.
.FRI...S WIND 10 KT. SEAS 2 FT.
.SAT AND SUN...W WIND 20 KT. SEAS 5 FT.

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1.4 Example of WSO Coastal Waters Forecast.

FZAK57 PAYA 101240
CWFYAK

MARINE FORECAST FOR YAKUTAT BAY
NATIONAL WEATHER SERVICE YAKUTAT AK
400 AM AST WED DEC 10 2003

PKZ053-110100-
YAKUTAT BAY-
400 AM AST WED DEC 10 2003

...SMALL CRAFT ADVISORY THROUGH THU...

.TODAY...SE WIND 25 KT. SEAS 4 FT. RAIN.
.TONIGHT...SE WIND 25 KT. SEAS 4 FT. RAIN.
.THU...SE WIND 25 KT. WITH GUST TO 35 KT. SEAS 5 FT.
.THU NIGHT...SE WIND 20 KT. SEAS 3 FT. RAIN.
.FRI...S WIND 25 KT. SEAS 4 FT. RAIN.
.SAT...S WIND 15 KT. SEAS 3 FT.
.SUN...SE GALES 40 KT. SEAS 6 FT.

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2. Surf Zone Forecast

2.1 Example of WSO Surf Zone Forecast.

FZAK59 PABR 101704
SRFBRW

SURF ZONE FORECAST
NATIONAL WEATHER SERVICE BARROW AK
455 AM AKDT FRI JUL 10 2009

AKZ202-111300-
NORTHERN ARCTIC COAST-
INCLUDING THE BEACHES OF BARROW...PITT POINT...NULAVIK
455 AM AKDT FRI JUL 10 2009

.TODAY AND TONIGHT...
WIND...NORTHEAST 10 TO 20 MPH...BECOMING NORTHWEST 5 TO 10 MPH TONIGHT.

SURF HEIGHT...2 FEET

SURF TEMPERATURE...MID 30S

.TIDES...
HIGH TIDE 0.3 FEET AT 502 AM AKDT
LOW TIDE 0.0 FEET AT 1145 AM AKDT
HIGH TIDE 0.3 FEET AT 544 PM AKDT
LOW TIDE 0.1 FEET AT 1157 PM AKDT

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