

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY ALASKA
Fort Richardson, Alaska 99505-5000

United States Army Alaska Regulation 115-1
Change 1

03 February 2004

Climatic, Hydrological, and Topographical Services

United States Army Alaska Weather Support

Summary. This is a change to USARAK Regulation 115-1. The change accurately reflects weather support, including changed forecast products, services and criteria.

Suggested Improvements. This regulation's proponent agency is the Directorate of Plans, Training, Security, and Mobilization, USARAK Aviation. Users are invited to send comments and suggested improvements on Department of the Army (DA) Form 2028 (Recommended Changes to Publications and Blank Forms) directly to APVR-WPTM-AV.

1. USARAK 115-1, 31 January 1999 is changed as follows:

All references to 172d Infantry Brigade (Separate) should be changed to 172d Stryker Brigade Combat Team.

All references to Automated Weather Display System (AWDS) should be changed to New Tactical Forecast System (NTFS).

Page 1-2, Subparagraph 1-6f should be replaced as follows:

f. The OWS provides flight weather briefing support and seasonal weather briefings for the Alaska Regional Flight Center at Elmendorf AFB.

Page 2-1, Subparagraph 2-2c should be replaced as follows:

c. Forecasts are normally issued by the OWS at 0400 local, 1200 local, and 2000 local and are valid for 24-hour periods. Forecast issue times may vary based on airfield and mission requirements. If the New Tactical Forecast System (NTFS) is non-operational, backup measures will provide local dissemination of the forecast. Other post agencies requiring a current forecast will contact the CWT.

Page 2-1, Replace Table 2-1 with the following table:

Table 2-1 Terminal Aerodrome Forecasts Specification Criteria	
1. Ceiling and/or visibility increases to, exceeds, or decreases to less than any of the following values:	
Ceiling	Visibility
3000 feet	3 statute miles (4800 meters)
1000 feet	2 statute miles (3200 meters)
700 feet	1 statute mile (1600 meters)
500 feet	1/2 statute mile (0800 meters) (Airfield Min)
300 feet (Airfield Min)	-----

2. Wind. a. Speed change of 10 knots or more. b. Direction change of greater than 30 degrees when the predominant wind speed or gusts are expected to be more than 15 knots.
3. Precipitation/Obscuration begins or ends.
4. Thunderstorms.
5. Low level wind shear from surface to 2,000 feet above ground level.
6. Weather warning and advisory criteria.
7. Icing and turbulence not associated with thunderstorms, from surface to 10,000 feet above ground level (AGL). Note: the turbulence forecasts are for Category II aircraft. However, the forecaster will tailor the turbulence forecast to the particular type of aircraft during the flight weather briefing.
8. Temperatures: High/Low in degrees Celsius for 24-hr period.
9. Other conditions that, in the forecaster's opinion, is essential to adequately describe the expected weather.

Page 2-2, Replace Table 2-2 with the following table:

Table 2-2 Terminal Aerodrome Forecast Amendment Criteria
1. Ceiling (Cig) and/or Visibility (Vsby) observed or later expected to decrease to less than, or if below, increase to equal or exceed: a. Cig/Vsby \geq 3000 feet/3 statute miles (4800 meters). b. Cig/Vsby $<$ 3000 feet/3 statute miles (4800 meters) to \geq 1000 feet/2 statute miles (3200 meters) c. Cig/Vsby $<$ 1000 feet/2 statute miles (3200 meters) to \geq 300 feet/1/2 statute mile (0800 meters) d. Cig/Vsby $<$ Airfield Minimums
2. An error in forecast winds of— a. 10 knots or more (including gusts). b. 30 degrees or more when the predominant wind speed (including gusts) is, or is forecast to be, more than 15 knots.
3. Precipitation when— a. The forecaster considers the occurrence or nonoccurrence of precipitation (other than ice crystals) to be operationally significant. b. Unforecast freezing precipitation begins or ends. c. Occurrence requires issuing a weather advisory or warning
4. The beginning or ending of light or greater icing below 10,000 feet AGL and not associated with thunderstorms.
5. Established weather warning or advisory criteria— a. Occur, or are expected to occur, during the forecast period but were not specified in the forecast. b. Were specified in the forecast, but is no longer occurring or expected to occur in the forecast period.
6. Low level wind shear (not associated with thunderstorms) below 2000 feet AGL is reported.
7. Forecasted low-level wind shear (not associated with thunderstorms) below 2000 feet AGL is no longer expected to occur.
8. Forecasters may amend the forecast at any time to ensure it is representative of actual or expected conditions.

Page 2-3, Subparagraph 2-2e should be replaced as follows:

- e. The CWT will not deviate from the TAF by crossing standard operational thresholds without first coordinating the change with the 11 OWS, unless it is critical to flight safety or when weather conditions are rapidly changing and prior coordination is not possible.

Page 2-5, Subparagraph 2-4f should be replaced as follows:

f. The OWS will provide flight weather briefings to garrison and transient aircrews when there is no CWT forecaster available. The Airfield Operations pilot briefing area (Bldg 1558) has the telephone numbers and other materials needed to fill out blank DD Forms 175-1 (the Flight Information Publication Supplement for Alaska also contains the telephone numbers). Local aviation elements are required to obtain the needed DD Forms 175-1 for use in their respective operations areas.

Page 2-6, Table 2-4. Omit note.

Page 2-6, Replace Table 2-5 with the following table:

Table 2-5 Weather Warning Criteria		
Criteria	Lead Time	Definition
High Winds	1 Hour	Surface winds, steady or gusting, ≥ 35 knots and ≤ 45 knots
High Winds	2 Hours	Surface winds, steady or gusting, > 45 knots
Freezing Precipitation	1 Hour	Freezing rain or drizzle of any intensity.
Hail 1/2 inch or greater	2 Hours	Hail 1/2 inch or greater
Heavy Snow	2 Hours	Snow accumulation equal to or greater than 4" expected in a 12-hour period.
Effective Chill Temperature (ECT)	1 Hour	ECT less than or equal to (LTE) -20F
Ambient temperature LTE -40F	1 Hour	Ambient temperature LTE -40F
Lightning	Observed	Lightning is observed within 5 nautical miles of WAAF
<p>Note 1: Each weather warning will state the criteria, the valid period (in both Zulu and local time), and the maximum or minimum value expected.</p> <p>Note 2: Lightning warnings will only be issued when the CWT is open.</p> <p>Note 3: The CWT has a Doppler weather radar that can determine how close thunderstorm cells are to the airfield. The radar will be monitored to determine the thunderstorm's distance and speed of movement. If it is within 5 nautical miles, a warning will be issued for lightning, even if lightning has not been observed. It will be canceled when the potential for thunderstorms within 5 nautical miles no longer exists.</p>		

Page 2-6, Subparagraph 2-7d should read as follows:

d. In the interest of flying safety and resource protection, CWT forecasters are authorized to issue weather warnings for any criteria if current knowledge of weather conditions indicates the event is imminent and issuance by the OWS is not practical or timely.

Page 2-7, Subparagraph 2-8d should read as follows:

b. In the interest of flight safety and resource protection, CWT forecasters are authorized to issue weather advisories for any criteria if current knowledge of weather conditions indicates the event is imminent and issuance by the OWS is not practical.

Page 2-7, Subparagraph 2-8h should read as follows:

h. Observed warnings/advisories will be monitored and issued by the OWS when the CWT is closed with the exception of the lightning warning. The OWS will not issue the lightning warning due to lack of detection equipment.

Page 2-8, Replace Table 2-6 with the following table:

Table 2-6 Weather Advisory Criteria		
Criteria	Lead Time	Definition
Snow	2 Hours	Expected accumulation ≥ 2 inches but < 4 inches
Snow	Observed	2 inches accumulation observed
High Winds (Note 2)	Observed	Surface winds, steady or gusting, equal to or exceeding 25 knots but less than 35 knots
Low Level Wind Shear (Note 2)	Observed	Wind shear is any rapid change in wind direction or speed. Severe windshear is a rapid change in wind direction or speed causing airspeed changes greater than 15 knots or vertical speed changes greater than 500 feet per minute. Although windshear occurs at all altitudes, it is particularly hazardous when it happens within 2,000 feet of the ground
<p>Note 1: Each weather advisory will state the criteria, the valid time period (in both Zulu and local time), and the maximum value expected (as applicable).</p> <p>Note 2: The presence of thunderstorms implies the possibility of localized, strong, gusty winds and wind shear. Advisories for these events will not be issued if their occurrence is expected to be strictly the result of thunderstorms.</p>		

Page 2-8, Paragraph 2-10. Replace in its entirety with the following:

2-10. Other Forecasting Services

a. Mission Execution Forecast Process (MEFP). The MEFP is a systematic and consistent approach to weather forecasting for the tactical/local customer. It translates the observed and forecasted state of the environment into impacts on the customer’s mission. The end result of this process is a Mission Execution Forecast (MEF). MEFs are a fusion of perishable meteorological data, strategic, and operational level forecast products providing relevant meteorological intelligence data to commanders. MEFs specify and are amended for parameters unique to the individual weapons system(s) involved in a military operation. These processes and procedures are explained in AFMAN 15-129, Chapter 4 and are implemented in accordance with AFMAN 15-135, Chapter 3.

b. Local flying area daily weather forecast and outlook. The CWT prepares a MEF three times a day at 0700L, 1300L and 1800L (except weekends and holidays) and posts the data on the OWS website at https://www-11ows.elmendorf.af.mil/tailored/index.cfm?fuseaction=none&unit_id=3ASOS

c. Automatic telephone answering device. As a service to Fort Wainwright personnel, the CWT operates an automatic telephone-answering device. The recording is for non-operational use and can be accessed by calling the telephone number listed in the post telephone book (353-7109). Duty priorities permitting, it is updated by 0700L, 1200L, and 1800L. The recording covers—

- (1) Weather conditions at the time of the recording.
- (2) A plain-language forecast for the upcoming 24 hours.
- (3) An extended outlook.

d. Space Weather Forecast Services. Air Force Weather Agency (AFWA) provides space environmental impact forecasts for UHFSATCOM, HF and GPS systems. UHF/HF forecasts provide

operators with time periods for which UHFSATCOM/HF systems may be impacted with signal degradation due to atmospheric and solar interference.

AFWA also provides GPS operators with potential GPS error forecasts. The Global-Positioning System (GPS) Single-Frequency Error-Map (GPSSFEM) estimates positioning errors that result from inaccurate ionospheric correction for a single-frequency GPS user. The GPSSFEM product calculates and displays errors in total position (latitude, longitude and height), horizontal position (latitude and longitude) and altitude position (height only). The CWT provides GPS error forecasts and UHFSATCOM/HF degradation forecasts on all MEF products.

e. Forecast Reviews, Studies, and Seminars. The OWS will provide weather forecast reviews, studies and seminars to the CWT. Primary means to access information will be via the Internet. The CWT will also cross feed any local forecast reviews, studies, and seminars to the OWS.

f. Planning Weather Outlook. The OWS prepares a five day weather outlook each morning (except weekends and holidays) and posts the data to the OWS website. The five day weather outlook will include a plain language weather summary, surface winds, maximum and minimum temperatures, sunrise and sunset times, and color coded flying categories reflecting the worst condition expected for the day. Flying categories are listed in Table 2-7.

Page 2-8, Insert the following as Table 2-7:

Category	Ceiling/Visibility	Surface Winds	Temperatures	Justification
Green	≥ 3000ft and/or 5mi	< 20kts	> -20°F Ambient/ECT	VFR, AFMAN 15-129
Amber	< 3000/5 but ≥ 1500/3	≥ 20kts	≤ -20°F Ambient/ECT, but > -40°F Ambient/ECT	MVFR, AFMAN 15-129, AFI13-212/11AFSup1
Red	< 1500/3 but ≥ 300/1	≥ 35kts	≤ -40°F Ambient/ECT, but > -50°F Ambient/ECT	IFR, AFMAN 15-129, NI 15-1, AFI13-212/11AFSup1
Black	< 300/1	≥ 50kts	≤ -50°F Ambient	NI 15-1, AFI13-212/11AFSup1

Pages 2-10 through 2-13, Renumber Tables 2-7 through 2-10 to reflect insertion of new Table 2-7.

Page 3-1, Add subparagraph 3-3f as follows:

f. The OWS prepares a MEF twice a day at 0500L, and 1300L (except weekends and holidays). The MEF is disseminated via the OWS website and fax. MEF format and requirements are listed in the Memorandum of Understanding between 1/207th Aviation Battalion and the 11 OWS.

Page 3-2, Table 3-1. Remove Note 1.

Page 3-2, Table 3-2 should be replaced with the following:

Criteria	Lead Time	Definition
High Winds	1 Hour	Surface winds, steady or gusting, ≥ 35 knots and ≤ 45 knots
High Winds	2 Hours	Surface winds, steady or gusting, > 45 knots
Freezing Precipitation	1 Hour	Freezing rain or drizzle of any intensity
Hail 1/2 inch or greater	2 Hours	Hail 1/2 inch or greater
Heavy Snow	2 Hours	Snow accumulation ≥4 inches expected in a 12-hour period

Equivalent Chill Temperature (ECT)	1 Hour	ECT -20°F or below
Low temperatures	1 Hour	Ambient temperature -40°F or below
<p>Note 1: Each weather warning will state the criteria, the valid period (in both Zulu and local time), and the maximum or minimum value expected.</p> <p>Note 2: The OWS has a Doppler weather radar that can determine how close thunderstorm cells are to the airfield. The radar will be monitored to determine the thunderstorm's distance and speed of movement. If it is within 5 nautical miles, a warning will be issued for lightning, even if lightning has not been observed. It will be canceled when the potential for thunderstorms within 5 nautical miles no longer exists.</p>		

Page 3-3, Table 3-3 should be replaced with the following:

Table 3-3 Fort Richardson Weather Advisory Criteria		
Criteria	Lead Time	Definition
Turbulence	Observed	Moderate or greater turbulence from surface to 10,000 feet above ground level occurring within 5 nm of the airfield
Icing	Observed	Light or greater turbulence from surface to 10,000 feet above ground level occurring within 5 nm of the airfield
Low Level Wind Shear (Note 2)	Observed	Wind shear is any rapid change in wind direction or speed. Severe windshear is a rapid change in wind direction or speed causing airspeed changes greater than 15 knots or vertical speed changes greater than 500 feet per minute. Although windshear occurs at all altitudes, it is particularly hazardous when it happens within 2,000 feet of the ground.
<p>Note 1: Each weather advisory will state the criteria, the valid time period (in both Zulu and local time), and the maximum value expected (as applicable).</p> <p>Note 2: The presence of thunderstorms implies the possibility of localized, strong, gusty winds and wind shear. Advisories for these events will not be issued if their occurrence is expected to be strictly the result of thunderstorms.</p>		

Page 3-3, Insert the following as paragraph 3-8 and renumber paragraphs 3-8 through 3-12 to reflect inserted paragraph.

3.8. Other Forecasting Services

- a. Space Weather Forecast Services. Air Force Weather Agency (AFWA) provides space environmental impact forecasts for UHFSATCOM, HF and GPS systems. UHF/HF forecasts provide operators with time periods for which UHFSATCOM/HF systems may be impacted with signal degradation due to atmospheric and solar interference.

- b. Planning Weather Outlook. The OWS prepares a five day weather outlook each morning (except weekends and holidays) and posts the data to the OWS website. The five day weather outlook will include a plain language weather summary, surface winds, maximum and minimum temperatures, sunrise and sunset times, and color coded flying categories reflecting the worst condition expected for the day. Flying categories are listed in Table 2-7.

Page 4-1, Paragraph 4-1 should be replaced with the following:

4-1. Forecasting Services

- a. The OWS prepares a five day weather outlook each morning (except weekends and holidays) and posts the data to the OWS website. The OWS prepares a five day weather outlook each morning (except weekends and holidays) and posts the data to the OWS website. The five day weather outlook will include a plain language weather summary, surface winds, maximum and minimum temperatures, sunrise and sunset times, and color coded flying categories reflecting the worst condition expected for the day. Flying categories are listed in Table 2-10.
- b. The CWT is available for flight weather briefings during weather station duty hours. During non-duty hours, the OWS is available to provide flight weather briefings for Fort Greely.
- c. The OWS does not produce a TAF for AAAF. Flight weather briefings will be based off the TAF issued by the National Weather Service for Big Delta. TAF support during contingencies and exercises will be coordinated via the 11 OWS Theater Combat Weather Flight Commander (11 OWS/WXO).

Page 4-1, Paragraph 4-4 should be replaced with the following:

4-4. Weather Warnings

- a. The OWS will issue weather warnings when the criteria listed in table 4-1 are forecasted to occur at Fort Greely.
- b. The OWS will transmit the warning to the Fort Wainwright EOC (353-1111/6666) and the Ft Greely 24 point of contact (873-4584). The EOC will telephone the warning to the Fort Greely staff duty officer. Telephone contact and the 11 OWS website serve as the primary dissemination methods. If the 11 OWS website is down, products are faxed/e-mailed on a limited basis.

Page 4-1, Paragraph 4-5 should be replaced with the following:

4-5. Weather Watches

- a. The OWS will issue weather watches when the criteria listed in table 4-2 are forecasted to occur at Fort Greely.
- b. The OWS will transmit the watch to the Fort Wainwright EOC (353-1111/6666) and the Ft Greely 24 point of contact (873-4584). The EOC will telephone the warning to the Fort Greely staff duty officer. Telephone contact and the 11 OWS website serve as the primary dissemination methods. If the 11 OWS website is down, products are faxed/e-mailed on a limited basis.

Page 4-2, Table 4-1 should be replaced with the following

Table 4-1 Fort Greely Weather Warnings		
Criteria	Lead Time	Definition
High Winds	1 Hour	Surface winds, steady or gusting, ≥ 35 knots and ≤ 45 knots
High Winds	2 Hours	Surface winds, steady or gusting, > 45 knots
Freezing Precipitation	1 Hour	Freezing rain or drizzle of any intensity
Hail 1/2 inch or greater	2 Hours	Hail 1/2 inch or greater in diameter
Heavy Snow	2 Hours	4 inches or more in a period of 12 hrs
Equivalent Chill Temperature (ECT)	1 Hour	ECT -20°F or below

Low temperatures	1 Hour	Ambient temperature -40°F or below
Note 1: Each weather warning will state the criteria, the valid period (in both Zulu and local time), and the maximum value expected.		

Page 4-2, Add the following as Table 4-2:

Table 4-2 Fort Greeley Weather Watches		
Criteria	Lead Time	Definition
Lightning	30 minutes	Lightning within 5 nautical miles

Page 4-2, Add paragraph 4-6 to read as follows and remove Section II:

4-6. Other Weather Support

The 11 OWS will provide support for Ft Wainwright aviation units deployed to Ft Greeley when the 3 ASOS CWT has not deployed, or when the 3 ASOS CWT is closed.

Page 4-2, Add paragraph 4-7 to read as follows:

4-7. Weather Support During Outages

a. Communications Outage/Degradation. During a communications outage/degradation, the 11 OWS will attempt to continue to operate from the AWOC using communication degradation procedures and webpage. If unable to continue to operate from the AWOC, standard evacuation procedures stated below will be implemented.

b. Immediate/Standard Evacuation. In case of an evacuation, such as fire, bomb threat, or communication outage, the 11 OWS will move to an alternate forecasting location. The 11 OWS will notify Ft Greeley 24 hr point of contact at 873-4584, once at an alternate forecasting location. If the Ft Greeley 24 hr point of contact is unavailable, the 11 OWS will notify the Ft Wainwright EOC. During contingency operations, communication outages, or as required by the situation, the Ft Wainwright CWT may assume back-up weather support for Ft Greeley. While the 11 OWS strives to minimize gaps in protection, a short delay may exist from the moment of evacuation until the 11 OWS relocates and is operational at an alternate location.

c. Long-Term (>72 hrs) Outage Support. In the event resumption of 11 OWS operations from the AWOC is not possible (e.g., catastrophic outage), AWOC personnel will provide weather support, as needed, to Ft Greeley from an alternate location until 11 OWS is able to reconstitute operations at the current AWOC or a replacement AWOC.

Page A-1, Table A-1 should be replaced with the following:

Table A-1 Fort Wainwright Warning and Advisory Dissemination During Duty Hours									
Agency	Telephone	Wind 35 to 45 Knots	Wind >45 Knots	Freezing Precipitation	Hail ≥1/2 inches	Snow ≥4 inches	ECT <-20°F/ -29°C	Temp <-40° F/C	Lightning <5 nautical miles
Aviation Battalion Operations Center	353-6195	X	X	X	X	X	X	X	X
Adjutant, Actions, 172	353-6602	X	X	X	X	X	X	X	X

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SIB									
Military Police	353-7536	X	X	X	X	X	X	X	X
Headquarters and Headquarters Company, 172 SIB	353-6690								
Directorate of Public Works	353-7069	X	X	X	X	X	X	X	X
4/11th Field Artillery Regiment	353-1509	X	X	X	X	X	X	X	X
Medical Department Activity-Alaska	353-5221	X	X	X	X	X	X	X	X
507th Signal Company	353-0507	X	X	X	X	X	X	X	X

Legend: ECT—equivalent chill temperature; F—Fahrenheit, C—Celsius

Note: Advisories for criteria unique to safety of flight (gust spread and wind shear) will be disseminated over NTFS directly to the control tower and flying organizations.

Page A-1, Table A-2 should be omitted.

Page B-1, Table B-1 should be replaced with the following:

Table B-1 Fort Richardson Warning Dissemination During Duty Hours								
Agency	Telephone	Wind 35 to 45 Knots	Wind >45 Knots	Freezing Precipitation	Hail ≥1/2 inches	Snow ≥4 inches	ECT <-20°F/ -29°C	Temp <-40° F/C
Directorate of Community Activities	384-2261/2003	X	X	X	X	X	X	X
Special Troops	384-0358	X	X	X	X	X	X	X
Range Control	384-6230	X	X	X	X	X	X	X
Transportation Motor Pool Dispatch	384-2720	X	X	X	X	X	X	X
Military Police	384-0823	X	X	X	X	X	X	X
Directorate of Public Works	384-717/3670	X	X	X	X	X	X	X
Fire Department	384-0774	X	X	X	X	X	X	X
National Guard	428-6333	X	X	X	X	X	X	X

Legend: Temp—temperature; F—Fahrenheit; ECT—equivalent chill temperature, C—Celsius

Note: Advisories for criteria unique to safety of flight (wind shear, turbulence and icing) will be disseminated directly to aviators during flight weather briefings.

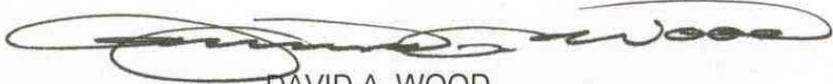
Page B-1, Table B-2 should be replaced with the following:

Table B-2 Fort Richardson Warning and Advisory Dissemination During Non Duty Hours							
Agency	Telephone	Wind 35 to 45 Knots	Wind >45 Knots	Freezing Precipitation	Snow ≥4 inches	ECT <-20°F/ -29°C	Temp <-40° F/C
National Guard	428-6333	X	X	X	X	X	X
1st Battalion, 501st Parachute Infantry Regiment	384-0617	X	X	X	X	X	X
Special Troops	384-0320	X	X	X	X	X	X
Range Control	384-6233	X	X	X	X	X	X
Military Police	384-0824	X	X	X	X	X	X
Fire Department	384-0774	X	X	X	X	X	X
Legend: ECT—equivalent chill temperature; F—Fahrenheit, C—Celsius							

Glossary, Insert the following "CWT.....Combat Weather Team"

2. Post this change per DA Pamphlet 25-40.
3. File this change in front of the publication.

FOR THE COMMANDER:



DAVID A. WOOD
COL, GS
Chief of Staff

OFFICIAL:

//Original Signed//
GERALD H. MILLER
LTC, SC
Director of Information Management

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1 - 11th Operational Weather Squadron, 10471 20th St, Ste 139, Elmendorf Air Force Base, Alaska 99506

1 - Federal Aviation Administration Big Delta, Post Office Box 1408, Delta Junction, Alaska 99737

1 - Commander, United States Army Pacific Command, Attention: APIM-OIR, Fort Shafter, Hawaii 96858-5100