

Cold Temperature Restricted Airports

Cold Temperature Altitude Corrections

Subject: Cold temperature altitude corrections at airports with a published cold temperature restriction.

Purpose: To provide a list of 14 CFR Part 97 “Cold Temperature Restricted Airports” designated with a temperature restriction and guidance on when and how to calculate and apply altitude corrections to affected approach segment(s) during cold temperature operations. This list may also be found at the bottom of the, “Terminal Procedures Basic Search” page:

http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/dtpp/search/

Background: In response to aviation industry concerns over cold weather altimetry errors, the FAA conducted a risk analysis to determine if current 14 CFR Part 97 instrument approach procedures, in the United States National Airspace System, place aircraft at risk during cold temperature operations. This study applied the coldest recorded temperature at the given airports in the last five years and specifically determined if there was a probability that during these non-standard day operations, anticipated altitude errors in a barometric altimetry system could exceed the Required Obstacle Clearance (ROC) used on procedure segment altitudes. If a probability, of the ROC being exceeded, went above one percent on a segment of the approach, a temperature restriction was applied to that segment. In addition to the low probability that these procedures will be required, the probability of the ROC being exceeded precisely at an obstacle position is extremely low, providing an even greater safety margin.

Action:

Pilots must make an altitude correction to the published, “at”, “at or above” and “at or below” altitudes on designated segment(s) (see list below), on all published procedures and runways, when the reported airport temperature is at or below the published airport cold temperature restriction.

NOTE: Authorization to apply the procedures found in this NTAP to an individual runway/s at a cold temperature restricted airport will be identified by exception. The following airport and runways have been approved.

Exception: KMDW, Chicago Midway Intl, Runways 22L and 22 R. Corrections will be applied when operating into runways 22L and 22R only.

Pilots without temperature compensating aircraft are responsible to calculate and make a manual cold temperature altitude correction to the designated segment(s) of the approach using the AIM 7-2-3, ICAO Cold Temperature Error Table.

No extrapolation above the 5000 ft column required. Pilots should use the 5000 ft “height above airport in feet” column for calculating corrections of greater than 5000ft above reporting station. Pilots will add correction(s) from the table to the segment altitude(s) and fly at the new corrected altitude.

PILOTS SHOULD NOT MAKE AN ALTIMETER CHANGE to accomplish an altitude correction.

Pilots with temperature compensating aircraft must ensure the system is on and operating for each segment requiring an altitude correction. Pilots must ensure they are flying at corrected altitude. If the system is not operating, the pilot is responsible to calculate and apply a manual cold weather altitude correction using the AIM 7-2-3 ICAO Cold Temperature Error Table. **PILOTS SHOULD NOT MAKE AN ALTIMETER CHANGE** to accomplish an altitude correction.

Pilots must report cold temperature corrected altitudes to Air Traffic Control (ATC) whenever applying a cold temperature correction on an intermediate segment and/or a published missed approach final altitude. This

should be done on initial radio contact with the ATC issuing approach clearance. ATC requires this information in order to ensure appropriate vertical separation between known traffic. Pilots must not apply cold temperature compensation to ATC assigned altitudes or when flying on radar vectors in lieu of a published missed approach procedure. Pilots should query ATC when vectors to an intermediate segment are lower than the requested intermediate segment altitude corrected for temperature. Pilots are encouraged to self-announce corrected altitude when flying into uncontrolled airfields.

The following are examples of appropriate pilot-to-ATC communication when applying cold-temperature altitude corrections.

- On initial check-in with ATC providing approach clearance: Hayden, CO (example below).
- Intermediate segment: “Require 10600 ft. for cold temperature operations until BEEAR”,
- Missed Approach segment: “Require final holding altitude, 10600 ft. on missed approach for cold temperature operations”
- Pilots cleared by ATC for an instrument approach procedure; “Cleared the RNAV RWY 28 approach (from any IAF)”. Hayden, CO (example below).
- Intermediate Segment: “Level 10600 ft. for cold temperature operations inside HIPNA to BEEAR”
- Pilots are not required to advise ATC if correcting on the final segment only. Elko, NV (example below).

Pilots must use the corrected MDA or DA/DH as the minimum for an approach. Pilots must meet the requirements in 14 CFR Part 91.175 in order to operate below the corrected MDA or DA/DH. Pilots must see and avoid obstacles when descending below the MDA.

The temperature restriction at a “Cold Temperature Restricted Airport” is mutually exclusive from the charted temperature restriction published for “uncompensated baro-VNAV systems” on 14 CFR Part 97 RNAV (GPS) and RNAV (RNP) approach plates. The charted temperature restriction for uncompensated baro-VNAV systems is applicable to the final segment LNAV/VNAV minima. The charted temperature restriction must be followed regardless of the cold temperature restricted airport temperature.

Pilots are not required to calculate a cold temperature altitude correction at any airport with a runway length of 2,500 feet or greater that is not included in the airports list below. Pilots operating into airports where all runways are less than 2,500 feet may make cold temperature altitude corrections in actual cold temperature conditions.

Cold Temperature Restricted Airports: Airports are listed by ICAO code, Airport Name, Temperature Restriction in Celsius/Fahrenheit and affected Segment. One temperature may apply to multiple segments. *Italicized airports have two segments with different temperature restrictions.* The warmest temperature will be indicated on Airport IAPs next to a snowflake symbol,  -35°C in the United States Terminal Procedure Publication.

SEGMENTS					
<u>Identifier</u>	<u>Airport Name</u>	<u>Temperature</u>	<u>Intermediate</u>	<u>Final</u>	<u>Missed Appr</u>
<u>Alaska</u> PABL	Buckland	-38C/-36F		X	

PABR	Wiley Post-Will Rogers	-41C/-42F	X
PABT	Bettles	-51C/-60F	X
PACH	Chuathbaluk	-38C/-36F	X
PACI	Chalkyitsik	-32C/-26F	X
PACM	Scammon Bay	-35C/-31F	X
PACV	Merle K (Mudhole) Smith	-21C/-6F	X
PACX	Coldfoot	-10C/14F	X
PADE	Deering	-24C/-11F	X
PADK	Adak	-17C/1F	X
PADL	Dillingham	-37C/-35F	X
PADM	Marshall Don Hunter Sr	-21C/-6F	X
PAEN	Kenai	-31C/-24F	X
PAFA	Fairbanks Intl	-20C/-4F	X
PAFM	Ambler	-43C/-45F	X
PAFS	Nikolai	-22C/-8F	X
PAGA	Edward G. Pitka Sr.	-33C/-27F	X
PAGH	Shungnak	-19C/-2F	X
PAGL	Golovin	-20C/-4F	X
PAGL	Golovin	-29C/-20F	X
PAGM	Gambell	-35C/-31F	X
PAGS	Gustavas	-24C/-11F	X
PAHC	Holy Cross	-28C/-18F	X
PAHL	Huslia	-31C/-24F	X
PAHO	Homer	-24C/-11F	X
PAHX	Shageluk	-36C/-33F	X
PAII	Egegik	-39C/-38F	X
PAIK	Bob Baker Memorial	-21C/-6F	X
PAIL	Iliamna	-18C/0F	X
PAJN	Juneau Intl	-22C/-8F	X
PAKA	Tatitlek	-19C/-2F	X
PAKK	Koyuk Alfred Adams	-34C/-29F	X
PAKP	Anaktuvuk	-6C/21F	X
PAKT	Ketchikan Intl	-11C/12F	X
PAKU	Ugnu-Kuparuk	-44C/-47F	X
PAKV	Kaltag	-20C/-4F	X
PAKW	Klawock	-11C/12F	X
PALG	Kalskag	-40C/-40F	X
PALP	Alpine Airstrip	-40C/-40F	X
PAMB	Manokotak	-32C/-26F	X
PAMC	McGrath	-24C/-11F	X
PAMH	Minchumina	-24C/-11F	X
PAMK	St Michael	-36C/-33F	X
PAMY	Mekoryuk	-33C/-27F	X
PANA	Napakiak	-37C/-35F	X
PANI	Aniak	-23C/-9F	X
PANI	Aniak	-33C/-27F	X
PANN	Nenana Muni	-33C/-27F	X
PANO	Nondalton	-12C/10F	X

Notices to Airmen**Cold Temp – Restricted Airports**

PANU	Nulato	-28C/-18F	X
PANV	Anvik	-31C/-24F	X
PAOM	Nome	-31C/-24F	X
PAOO	Toksook Bay	-40C/-40F	X
PAOR	Northway	-19C/-2F	X
PAOT	Ralph Wien Memorial	-43C/-45F	X
PAPG	Petersburg James A Johnson	-11C/12F	X
PAQH	Quinhagak	-16C/3F	X
PAQH	Quinhagak	-32C/-26F	X
PAQT	Nuiqsut	-41C/-42F	X
PARS	Russian Mission	-15C/5F	X
PARY	Ruby	-33C/-27F	X
PASA	Savoonga	-27C/-17F	X
PASC	Deadhorse	-45C/-49F	X
PASH	Shishmaref	-40C/-40F	X
PASK	Selawik	-43C/-45F	X
PATA	Ralph M Calhoun Memorial	-32C/-26F	X
PATE	Teller	-39C/-38F	X
PATG	Togiak	-26C/-15F	X
PATK	Talkeetna	-26C/-15F	X
PATQ	Atqasuk Edward Burnell Sr. Mem	-35C/-31F	X
PAUN	Unalakleet	-38C/-36F	X
PAUO	Willow	-35C/-31F	X
PAVC	King Cove	-13C/9F	X
PAVL	Kivalina	-33C/-27F	X
PAWB	Beaver	-41C/-42F	X
PAWD	Seward	-3C/27F	X
PAWG	Wrangell	-10C/14F	X
PAWI	Wainwright	-41C/-42F	X
PFAL	Allakaket	-34C/-29F	X
PFEL	Elim	-27C/-17F	X
PFKK	Kokhanok	-16C/3F	X
PFKW	Kwethluk	-37C/-35F	X
PFNO	Robert (Bob) Curtis Memorial	-16C/3F	X
PFSH	Shaktoolik	-24C/-11F	X
PFTO	Tok Junction	-19C/-2F	X
PFYU	Fort Yukon	-45C/-49F	X
PPIZ	Point Lay LRRS	-33C/-27F	X
<u>California</u>			
KTRK	Truckee – Tahoe	-20C/-4F	X
KTRK	Truckee – Tahoe	-24C/-11F	X
KTVL	Lake Tahoe	-21C/-6F	X
<u>Colorado</u>			
KANK	Harriet Alexander Field	-21C/-6F	X
KASE	Aspen-Pitkin County/Sardy Field	-21C/-6F	X
KCAG	Craig-Moffat	-26C/-15F	X

KCAG	Craig-Moffat	-31C/-24F	X	
KEEO	Meeker Coulter Field	-17C/1F		X
KEEO	Meeker Coulter Field	-28C/-18F	X	
KEGE	Eagle County Rgnl	-17C/1F	X	
KEGE	Eagle County Rgnl	-25C/-13F		X
KGUC	Gunnison-Crested Butte Rgnl	-28C/-18F	X	
KGUC	Gunnison-Crested Butte Rgnl	-34C/-29F		X
KHDN	Yampa Valley	-26C/-15F	X	
KLXV	Lake County	-26C/-15F		X
KRIL	Garfield County Rgnl	-16C/3F	X	
KSBS	Steamboat Springs/Bob Adams Fld	-31C/-24F	X	
KTAD	Perry Stokes	-23C/-9F	X	
<u>Idaho</u>				
KLWS	Lewiston-Nez Perce County	-16C/3 F	X	
KMYL	McCall Muni	-20C/-4F	X	
KSMN	Lemhi County	-11C/12F	X	
KSZT	Sandpoint	-21C/-6F	X	
<u>Illinois</u>				
KARR	Aurora Muni	-34C/-29F	X	
KMDW	Chicago Midway Intl	-27C/-17F	X	
	RWY 22R and 22L Operations			
KSFY	Tri-Township	-32C/-26F	X	
<u>Indiana</u>				
KMGC	Michigan City Muni-Phillips Field	-27C/-17F	X	
KSMD	Smith Field	-26C/-15C		X
<u>Iowa</u>				
KALO	Waterloo Regional Airport	-35C/-31F	X	
KAMW	Ames Muni	-27C/-17F	X	
KBRL	Southeast Iowa Rgnl	-28C/-18F	X	
KCWI	Clinton Muni	-35C/-31F	X	
KDBQ	Dubuque Rgnl	-34C/-29F	X	
KIIB	Independence Muni	-30C/-22F	X	
KIKV	Ankeny Rgnl	-26C/-15F	X	
KSPW	Spencer Muni	-32C/-26F	X	
<u>Maine</u>				
KBGR	Bangor Intl	-31C/-24F	X	
KCAR	Caribou Muni	-27C/-17F	X	
KIZG	Eastern Slopes Rgnl	-18C/0F	X	
KIZG	Eastern Slopes Rgnl	-22C/-8F		X
KLRG	Lincoln Rgnl	-31C/-24F	X	
KMLT	Millinocket Muni	-24C/-11F	X	
KPQI	Northern Maine Rgnl	-25C/-13F	X	
KPQI	Northern Maine Rgnl	-36C/-33F		X
3B1	Greenville Municipal	-30C/-22F	X	
8B0	Steven A. Bean Municipal	-35C/-31F	X	
<u>Maryland</u>				

Notices to Airmen

Cold Temp – Restricted Airports

KCBE	Greater Cumberland Rgnl	-13C/9F	X	
<u>Massachusetts</u>				
KBAF	Westfield-Barnes Regional	-20C/-4F		X
KGBR	Walter J. Koladza	-21C/-6F	X	
KORE	Orange Muni	-21C/-6F	X	
KPSF	Pittsfield Muni	-24C/-11F		X
7B2	Northampton	-23C/-9F	X	
<u>Michigan</u>				
KIWD	Gogebic-Iron County	-27C/-17F		X
KPLN	Pellston Rgnl of Emmet County	-30C/-22F	X	X
KTVC	Cherry Capital	-14C/7F		X
<u>Minnesota</u>				
KBDE	Baudette Intl	-28C/-18F		X
KBFW	Silver Bay Municipal	-32C/-26F	X	
KCKC	Grand Marais/Cook County	-30C/-22F		X
KCQM	Cook Muni	-37C/-35F	X	
KELO	Ely Muni	-38C/-36F	X	
KFSE	Fosston Muni	-38C/-36F	X	
KGDB	Granite Falls Muni	-35C/-31F	X	
KHCO	Hallock Muni	-37C/-35F	X	
KHIB	Range Rgnl	-30C/-22F	X	
KINL	Falls Intl	-30C/-22F	X	
KONA	Winona Muni-Max Conrad Field	-29C/-20F	X	
KPNM	Princeton Muni	-34C/-29F	X	
KRGK	Red Wing Rgnl	-30C/-22F	X	
KRRT	Warroad Intl Memorial	-36C/-33F	X	
KRST	Rochester Intl	-27C/-17F	X	
KSTP	St Paul Downtown Holman Fld	-29C/-20F	X	
KTOB	Dodge Center	-42C/-44F	X	
KVVV	Ortonville Muni-Martinson Field	-33C/-27F	X	
12D	Tower Municipal	-38C/-36F	X	
<u>Montana</u>				
KBTM	Bert Mooney	-22C/-8F	X	
KBZN	Bozeman Yellowstone Intl	-12C/10F	X	
KDLN	Dillon	-18C/0F	X	
KGPI	Glacier Park Intl	-12C/10F	X	
KHLN	Helena Rgnl	-20C/-4F	X	
KHLN	Helena Rgnl	-30C/-22F		X
KHVR	Havre City-County	-30C/-22F		X
KLVM	Mission Field	-21C/-6F	X	
KMSO	Missoula Intl	-10C/14F	X	
KOLF	L M Clayton	-30C/-22F	X	
KS BX	Shelby	-36C/-33F	X	
KWYS	Yellowstone	-18C/0F	X	
M46	Colstrip	-31C/-24F	X	

M75	Malta	-37C/-35F	X
S59	Libby	-15C/5F	X
3U3	Bowman Field	-32C/-26F	X
4U6	Circle Town County	-35C/-31F	X
6S5	Ravalli County	-23C/-9F	X
6S8	Laurel Municipal	-25C/-13F	X
8S1	Polson	-19C/-2F	X
<u>Nebraska</u>			
KCDR	Chadron Muni	-31C/-24F	X
<u>Nevada</u>			
KEKO	Elko Rgnl	-20C/-4F	X
KEKO	Elko Rgnl	-27C/-17F	X
KELY	Ely (Yelland Field)	-18C/0F	X
KLOL	Derby Field	-24C/-11F	X
KMEV	Minden-Tahoe	-24C/-11F	X
KRNO	Reno/Tahoe Intl	-18C/0F	X
KWMC	Winnemucca Muni	-22C/-8F	X
KHIE	Mount Washington Rgnl	-32C/-26F	X
KLCI	Laconia Muni	-25C/-13F	X
KLEB	Lebanon Muni	-20C/-4F	X
<u>New Hampshire</u>			
KBML	Berlin Rgnl	-22C/-8F	X
KBML	Berlin Rgnl	-31C/-24F	X
KCNH	Claremont Muni	-27C/-17F	X
KCON	Concord Muni	-30C/-22F	X
<u>New Jersey</u>			
KFWN	Sussex	-24C/-11F	X
<u>New Mexico</u>			
KAXX	Angel Fire	-22C/-8F	X
KAXX	Angel Fire	-30C/-22F	X
KSKX	Taos Rgnl	-31C/-24F	X
<u>New York</u>			
KART	Watertown Intl	-36C/-33F	X
KDSV	Dansville Muni	-18C/0F	X
KELM	Elmira/Corning Rgnl	-17C/1F	X
KELM	Elmira/Corning Rgnl	-27C/-17F	X
KGFL	Floyd Bennett Memorial	-17C/1F	X
KITH	Ithaca Tompkins Rgnl	-19C/-2F	X
KLKP	Lake Placid	-11C/12F	X
KMSS	Massena Intl-Richards Field	-33C/-27F	X
KPBG	Plattsburgh Intl	-28C/-18F	X
KSCH	Schenectady County	-21C/-6F	X
KSLK	Adirondack Rgnl	-23C/-9F	X
KSLK	Adirondack Rgnl	-33C/-27F	X
KVGC	Hamilton Muni	-28C/-18F	X
N03	Cortland County-Chase Field	-24C/-11F	X
06N	Randall	-20C/-4F	X
<u>North Carolina</u>			

Notices to Airmen

Cold Temp – Restricted Airports

1A5	Macon County	-16C/3F	X	
<u>North Dakota</u>				
KBIS	Bismarck Muni	-35C/-31F	X	
KDIK	Dickison-Theodore Roosevelt Rgnl	-30C/-22F	X	
KFAR	Hector Intl	-25C/-13F	X	
KHZE	Mercer County Rgnl	-41C/-42F	X	
KISN	Sloulin Field Intl	-36C/-33F	X	X
KMOT	Minot Intl	-34C/-29F	X	
KPMB	Pembina Muni	-30C/-22F	X	
S25	Watford City Muni	-35C/-31F	X	
7L2	Linton Municipal	-41C/-42F	X	
<u>Ohio</u>				
KILN	Wilmington Air Park	-21C/-6F	X	
<u>Oregon</u>				
KBDN	Bend Muni	-22C/-8F	X	
KBNO	Burns Muni	-27C/-17F	X	
KLGD	La Grande/Union County	-12C/10F		X
KLKV	Lake County	-27C/-17F	X	
KPDT	Eastern Oregon Rgnl at Pendleton	-18C/0F	X	
KRDM	Roberts Field	-19C/-2F	X	
S39	Prineville	-35C/-31F	X	
<u>Pennsylvania</u>				
KAVP	Wilkes-Barre/Scranton Intl	-21C/-6F	X	
KHMZ	Bedford County	-23C/-9F	X	
KIPT	Williamsport Rgnl	-10C/14F		X
KIPT	Williamsport Rgnl	-18C/0F	X	
KLHV	William T. Piper	-15C/5F	X	
N27	Bradford County	-24C/-11F	X	
N53	Stroudsburg-Pocono	-24C/-11F	X	
<u>South Dakota</u>				
KATY	Watertown Rgnl	-34C/-29F	X	
KEFC	Belle Fourche Muni	-26C/-15F	X	
KIEN	Pine Ridge	-33C/-27F		X
KMBG	Mobridge Muni	-30C/-22F	X	
KSPF	Black Hills-Clyde Ice Field	-27C/-17F	X	
<u>Utah</u>				
KBCE	Bryce Canyon Airport	-30C/-22F	X	
KDTA	Delta Muni	-24C/-11F		X
KENV	Wendover	-11C/12F	X	
KLGU	Logan-Cache	-15C/5F		X
KSGU	St George Muni	-17C/1F	X	
U52	Beaver Municipal	-27C/-17F	X	
U55	Panguitch Municipal	-27C/-17F	X	
74V	Roosevelt Municipal Airport	-25C/-13F	X	
<u>Vermont</u>				

KBTW	Burlington Intl	-14C/7F	X	
KDDH	William H. Morse State	-17C/1F		X
KDDH	William H. Morse State	-24C/-11F	X	
KEFK	Newport State	-22C/-8F	X	
KFSO	Franklin County State	-31C/-24F	X	
KMPV	Edward F Knapp State	-20C/-4F	X	
KMPV	Edward F Knapp State	-30C/-22F		X
KRUT	Rutland-Southern Rgnl	Vermont -4C/25F		X
KRUT	Rutland-Southern Rgnl	Vermont -18C/0F	X	
KVBW	Bridgewater Air Park	-15C/5F	X	
KVSF	Hartness State (Springfield)	-24C/-11F	X	
4V8	Deerfield Valley Regional	-22C/-8F	X	
<u>Virginia</u>				
KFRR	Front Royal-Warren County	-10C/14F	X	
KLUA	Luray Caverns	-19C/-2F	X	
KMTV	Blue Ridge	-17C/1F	X	
KROA	Roanoke Rgnl/Woodrum Field	-9C/16F		X
KSHD	Shenandoah Valley Rgnl	-23C/-9F	X	
W13	Eagle's Nest	-18C/0F	X	

Washington St.

KDEW	Deer Park	-26C/-15C		X
KEAT	Pangborn Memorial	-7C/19F	X	
KEAT	Pangborn Memorial	-20C/-4F		X
KELN	Bowers Field	-17C/1F	X	
KGEG	Spokane Intl	-24C/-11F	X	
KMWH	Grant County Intl	-22C/-8F	X	
KOMK	Omak	-13C/9F		X
KRLD	Richland	-17C/1F	X	
KTDO	Ed Carlson Memorial Field-South Lewis Co	-12C/10F	X	

West Virginia

KEKN	Elkins-Randolph County			
	Jennings Randolph Field	-15C/5F		X
W22	Upshur County Regional	-15C/5F	X	
W99	Grant County	-9C/16F	X	

Wisconsin

KBCK	Black River Falls Area	-32C/-26F	X	
KCMY	Sparta/Fort McCoy	-33C/-27F	X	
KLNR	Tri County Rgnl	-26C/-15F		X
KLNR	Tri County Rgnl	-29C/-20F	X	
KLSE	La Crosse Muni	-19C/-2F		X
KLSE	La Crosse Muni	-29C/-20F	X	
KOVS	Boscobel	-28C/-18F		X
KOVS	Boscobel	-33C/-27F	X	

KPDC	Prairie du Chien Muni	-27C/-17F	X
KRHI	Rhinelander-Oneida County	-30C/-22F	X
KRPD	Rice Lake Rgnl-Carl's Field	-35C/-31F	X
KRRL	Merrill Muni	-33C/-27F	X
KSUW	Richard I Bong	-26C/-15F	X
4R5	Major Gilbert Field	-29C/-20F	X
87Y	Blackhawk Airfield	-24C/-11F	X
93C	Richland	-29C/-20F	X
C29	Middleton Municipal-Morey Field	-24C/-11F	X

Wyoming

KAFO	Afton Municipal Airport	-22C/-8F	X
KDGW	Converse County	-26C/-15F	X
KGCC	Gillette-Campbell County	-25C/-13F	X
KGEY	South Big Horn County	-32C/-26F	X
KJAC	Jackson Hole	-26C/-15F	X
KLAR	Laramie Rgnl	-35C/-31F	X
KRWL	Rawlins Muni/Harvey Field	-35C/-31F	X
KSHR	Sheridan County	-22C/-8F	X

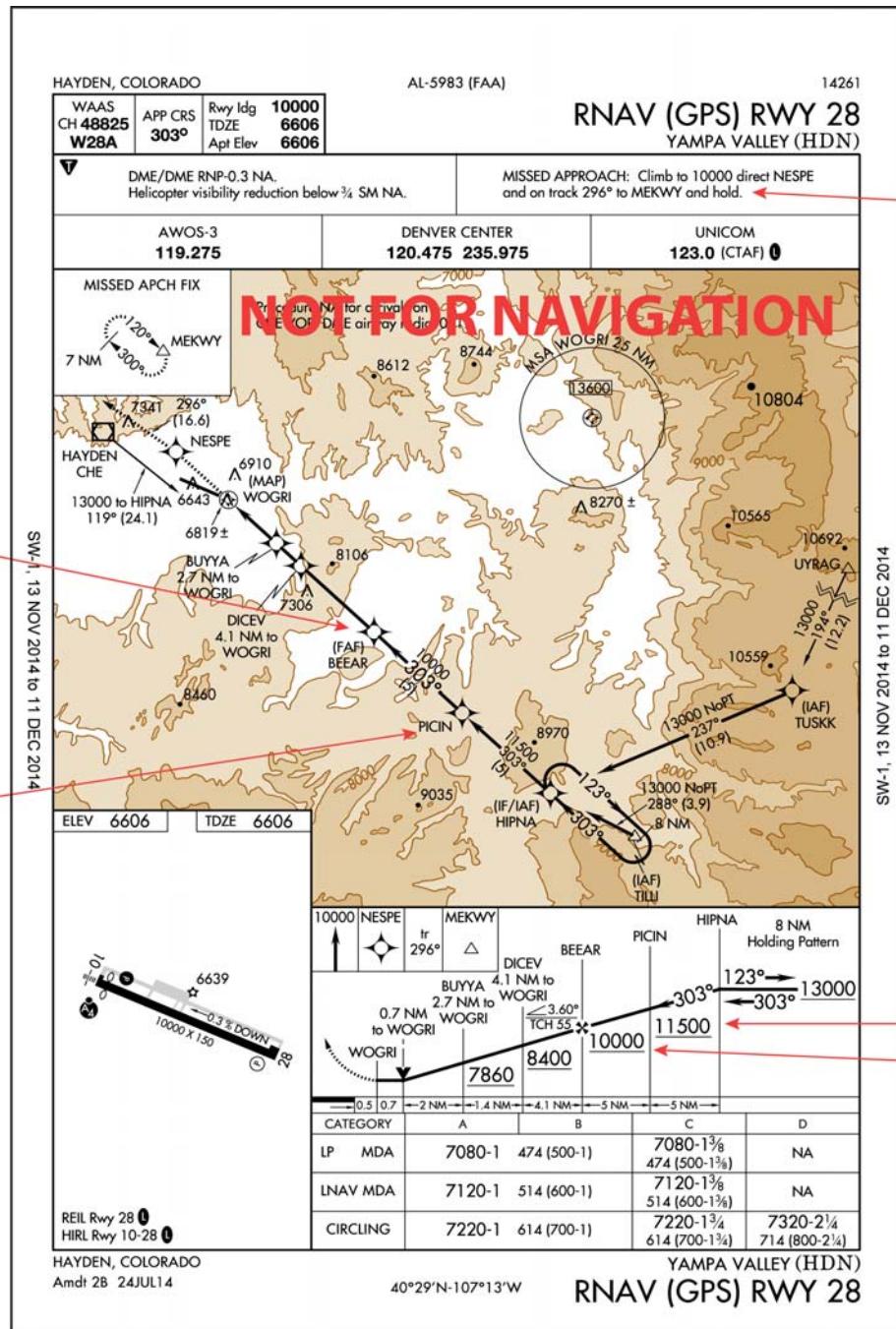
See the following examples for identifying and applying altitude corrections.

Examples:

Hayden/Yampa Valley. Hayden, CO, Reported Temperature -26° C: Cold weather temperature restriction is -26° C / -15° for both the intermediate and missed approach segment. RNAV (GPS) RWY 28:

1. Intermediate altitude (FAF) (BEEAR) = 10000 ft.
2. Airport elevation = 6606 ft.
3. Difference: 10000 ft. – 6606 ft. = 3394 ft.
4. AIM 7-2-3 ICAO Cold Temperature Error Table: Interception of 3394 ft. and -26° C ≈ 550ft. Add correction to altitudes inside of IF thru FAF. IF HIPNA; 13,000. Stepdown fix PICIN; 11500 + 550 = 12050 (12100). FAF BEEAR; 10000 + 550 = 10550 (10600).
5. Fly new altitudes leaving HIPNA. Passing BEEAR no correction required on final.
6. Missed approach altitude. Follow steps 1 thru 4 to calculate and apply correction. New holding altitude is 10600 ft.

Yampa Valley GPS 28 – November 2014



Elko Rgnl. Elko, NV, Reported Temperature -20° C: Cold weather temperature restriction is -20° C / -4° F on the final segment and -27° C / -17° F on the intermediate segment. GPS RWY 5:

1. Final Segment (MDA) = 6220 ft.
 2. Airport elevation = 5140 ft.
 3. Difference: $6220 \text{ ft.} - 5140 \text{ ft.} = 1080 \text{ ft.}$
 4. AIM 7-2-3 ICAO Cold Temperature Error Table: Interception of 1080 ft. and $-20^\circ \text{ C} \approx 140 \text{ ft.}$

5. Add correction to altitudes inside of FAF to MDA, Stepdown fix; $6720 + 140 = 6860$ (6900). MDA; $6220 + 140 = 6360$ (6400).
6. Fly new altitudes leaving ECOLY. No other segment on the approach requires correction at -20°C .
7. Continue monitoring required corrections on final segment at temperatures below -20° C and make changes to MDA and Stepdown if needed.
8. Reported temperature is -27° C : Final segment correction is now ${}^{\circ} 190$ ft. Stepdown fix; $6720 + 190 = 6910$ (6900). MDA; $6220 + 190 = 6410$ (6400). Stepdown and MDA corrected altitudes remain the same. The intermediate segment must now be corrected. Correction is ${}^{\circ} 300$ ft. Cross ECOLY at 7600.

