

FAA Cold Temperature Restricted Airports Altitude Correction Plots Off-Standard Atmosphere

PART 3

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1.1 Abstract

Most aviation authorities' procedures and regulations require or recommend that pilots apply corrections to minimum instrument approach altitudes during periods of very cold weather conditions, or cold weather conditions in combination with terrain. The purpose of this document is to provide means to implement the cold temperature altitude corrections recommended by International Civil Aviation Organization (ICAO) in document PANS OPS Doc 8168 [1].

ICAO document PANS OPS Doc 8168 [1] recommends the use of three different formulas. These formulas provide altitude corrections with different degrees of approximation for an Off-ISA Atmosphere, which is an atmosphere with the same characteristic of the International Standard Atmosphere but whose temperature profile differs from ISA by a constant temperature offset.

The first formula, called "Sea Level Approximation" is the same used to calculate the well-known ICAO Cold Temperature Altitude Correction Table. It is the least accurate of the three formulas, as it assumes that the airport/station is located at sea level.

The second formula, called "Off-Standard Atmosphere Approximated" still includes approximations, yet it is more accurate than the first one, as it takes into account the airport/station elevation.

The third formula, called "Off-Standard Atmosphere" includes only minor approximations, providing the most accurate corrections.

This document provides Cold Temperature Altitude Correction Plots for airports identified by the FAA as "Cold Temperature Restricted Airports" [2], the list used is based on is the FAA Notice to Airman publication of April 27, 2017.

The formula used is the third of those recommended by International Civil Aviation Organization (ICAO) in document PANS OPS Doc 8168 [1], the so called "Off-Standard Atmosphere".



1.2 Disclaimer

These notes were produced to improve understanding of cold temperature correction and promote situational awareness. The content of this document should not be used for navigation and the user should always refer to current published documents and charts.

The pilot in command of an aircraft is ultimately responsible for its operation and safety during flight.

In these notes, the term “corrected altitude” is used with the intended meaning of “altitude corrected for non-standard temperature”.

1.3 Further Information

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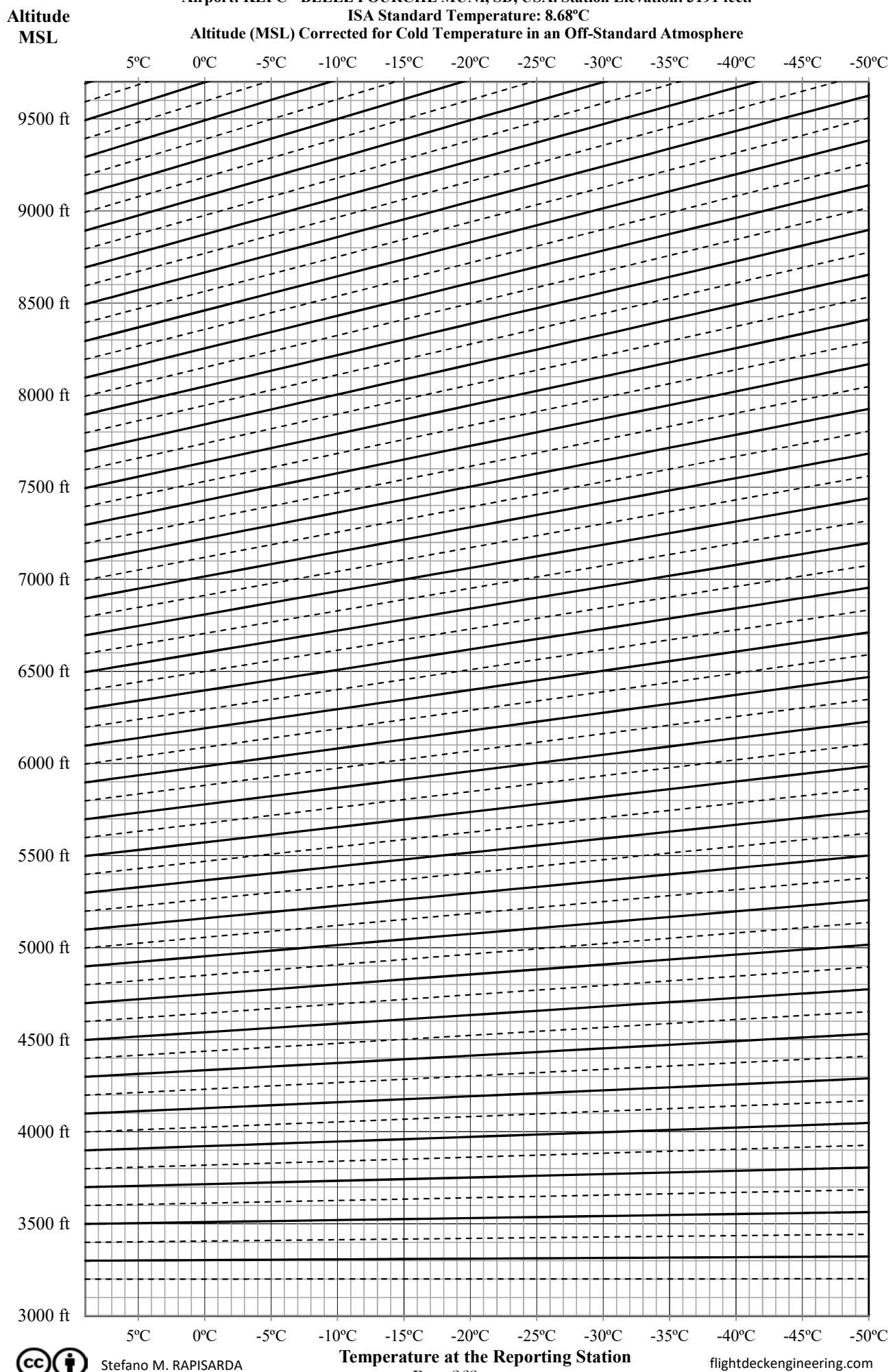
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25.2	KMBG MOBRIDGE MUNI, SD, USA	269
25.3	KSPF SPEARFISH - BLACK HILLS-CLYDE ICE FIELD, SD, USA.....	270

Airport: KEFC - BELLE FOURCHE MUNI, SD, USA. Station Elevation: 3191 feet.

ISA Standard Temperature: 8.68°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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Temperature at the Reporting Station

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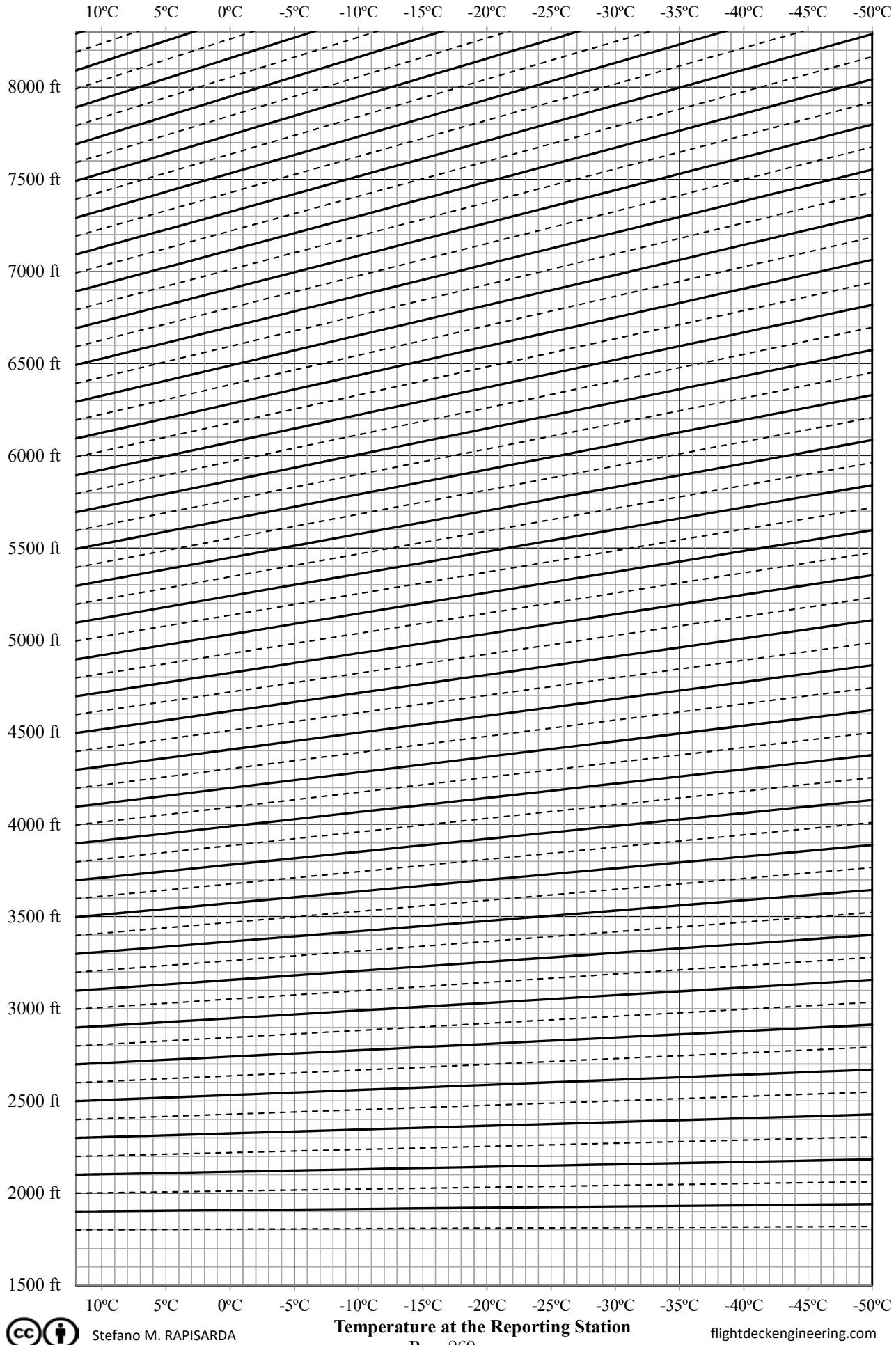
flightdeckengineering.com

Airport: KMBG - MOBRIDGE MUNI, SD, USA. Station Elevation: 1716 feet.

ISA Standard Temperature: 11.6°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

Altitude
MSL



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Temperature at the Reporting Station

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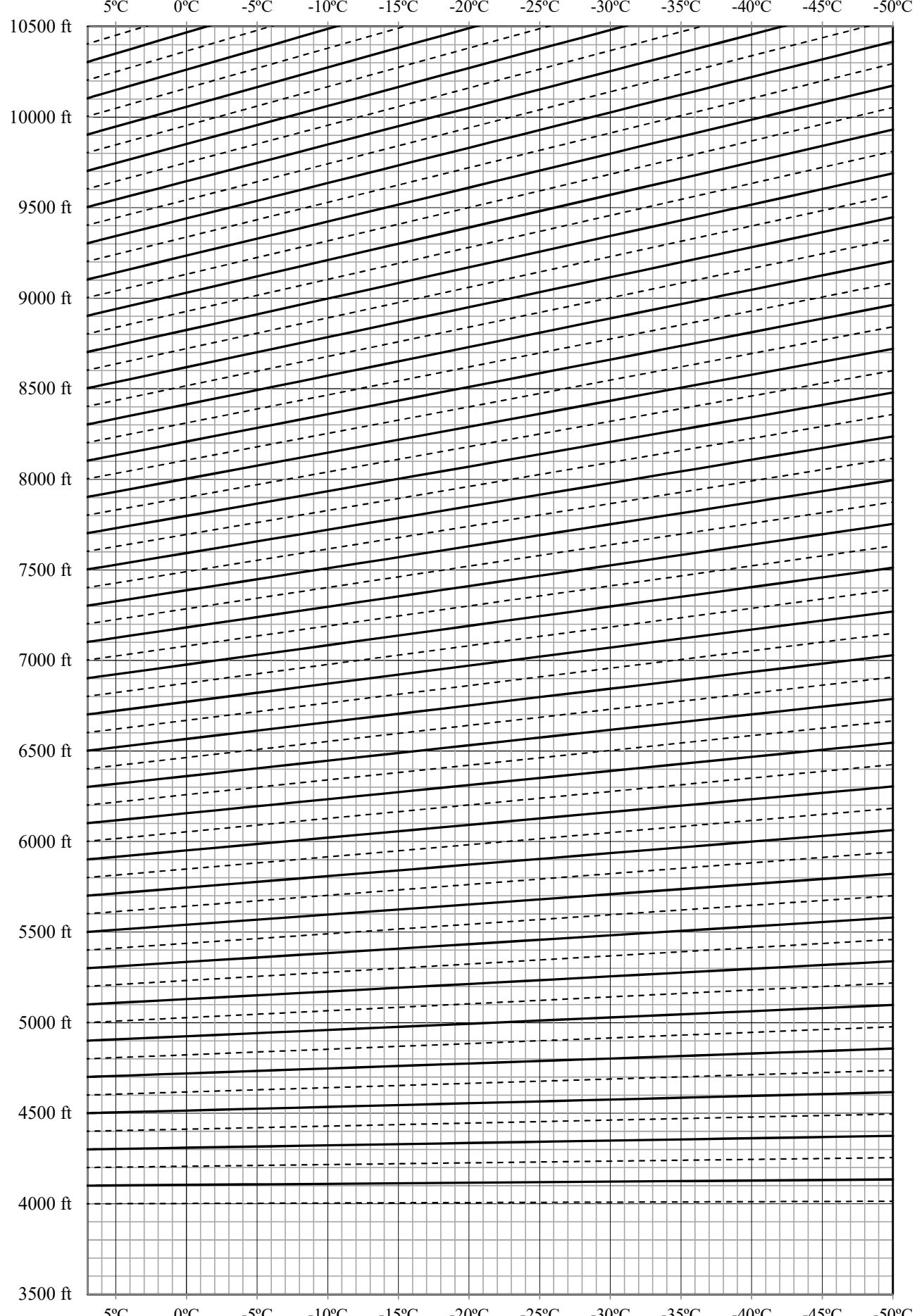
flightdeckengineering.com

Airport: KSPF - SPEARFISH - BLACK HILLS-CLYDE ICE FIELD, SD, USA. Station Elevation: 3933 feet.

ISA Standard Temperature: 7.2°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

Altitude
MSL



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Temperature at the Reporting Station

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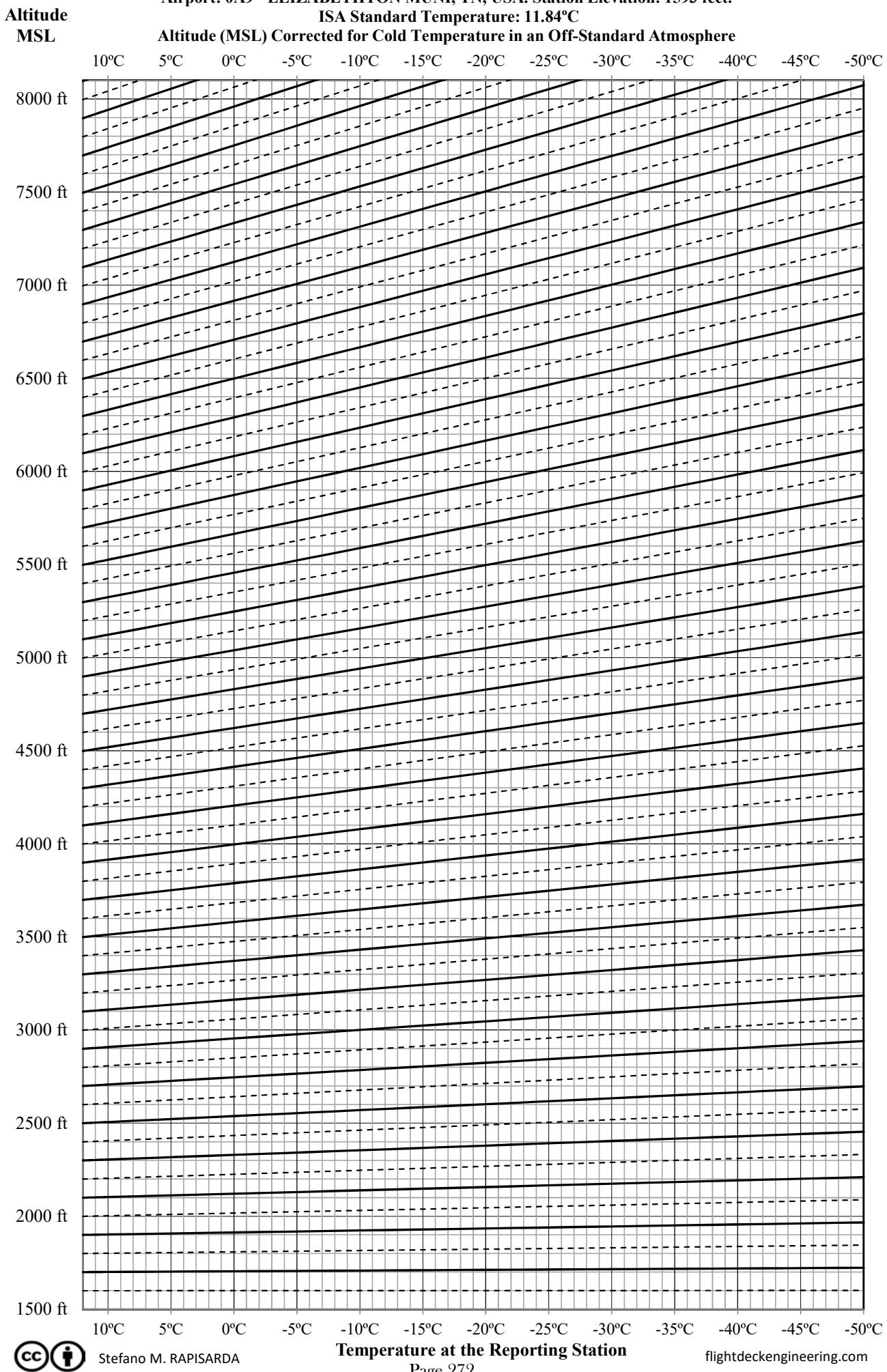
26 Tennessee Cold Temperature Restricted Airports

26.1	0A9 ELIZABETHTON MUNI, TN, USA.....	272
26.2	6A4 MOUNTAIN CITY-JOHNSON COUNTY, TN, USA	273

Airport: 0A9 - ELIZABETHTON MUNI, TN, USA. Station Elevation: 1593 feet.

ISA Standard Temperature: 11.84°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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Temperature at the Reporting Station

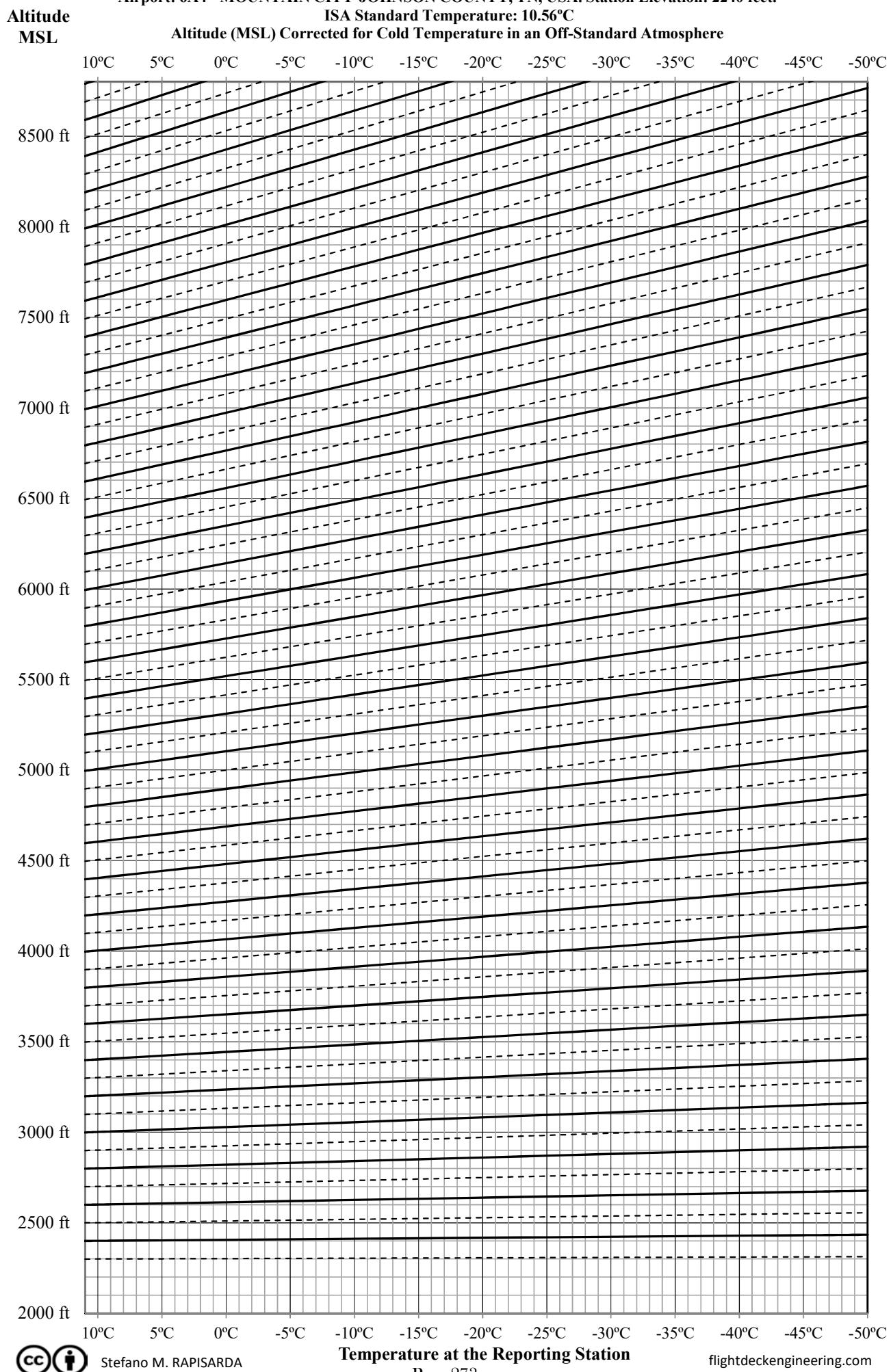
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flightdeckengineering.com

Airport: 6A4 - MOUNTAIN CITY-JOHNSON COUNTY, TN, USA. Station Elevation: 2240 feet.

ISA Standard Temperature: 10.56°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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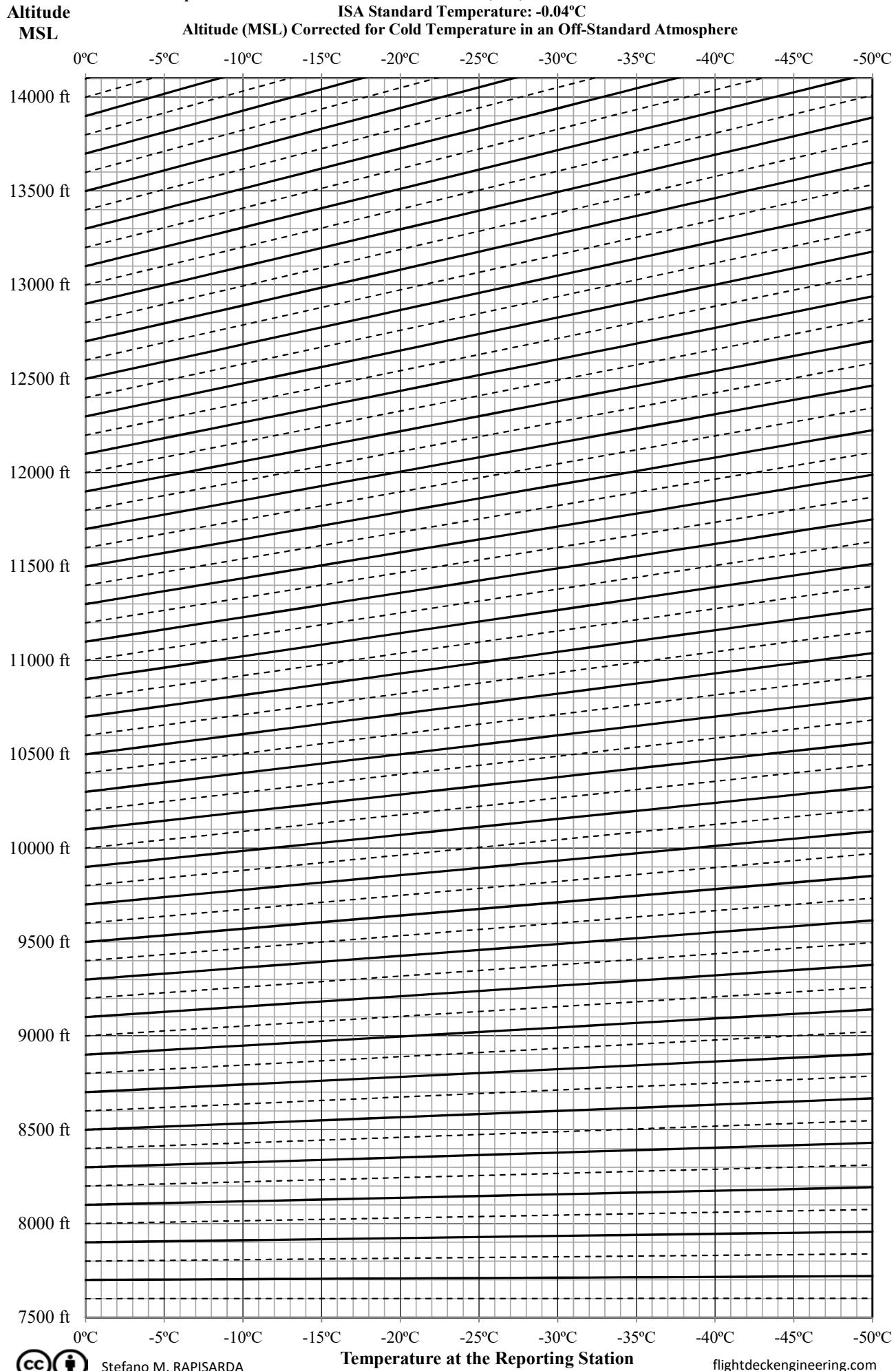
27 Utah Cold Temperature Restricted Airports

27.1	KBCE BRYCE CANYON AIRPORT, UT, USA.....	275
27.2	KDTA DELTA MUNI, UT, USA	276
27.3	KENV WENDOVER, UT, USA.....	277
27.4	KLGU LOGAN-CACHE, UT, USA	278
27.5	KRIF RICHFIELD MUNI, UT, USA	279
27.6	KSGU ST GEORGE MUNI, UT, USA.....	280
27.7	U52 BEAVER MUNICIPAL, UT, USA.....	281
27.8	U55 PANGUITCH MUNICIPAL, UT, USA	282

Airport: KBCE - BRYCE CANYON AIRPORT, UT, USA. Station Elevation: 7590 feet.

ISA Standard Temperature: -0.04°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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Temperature at the Reporting Station

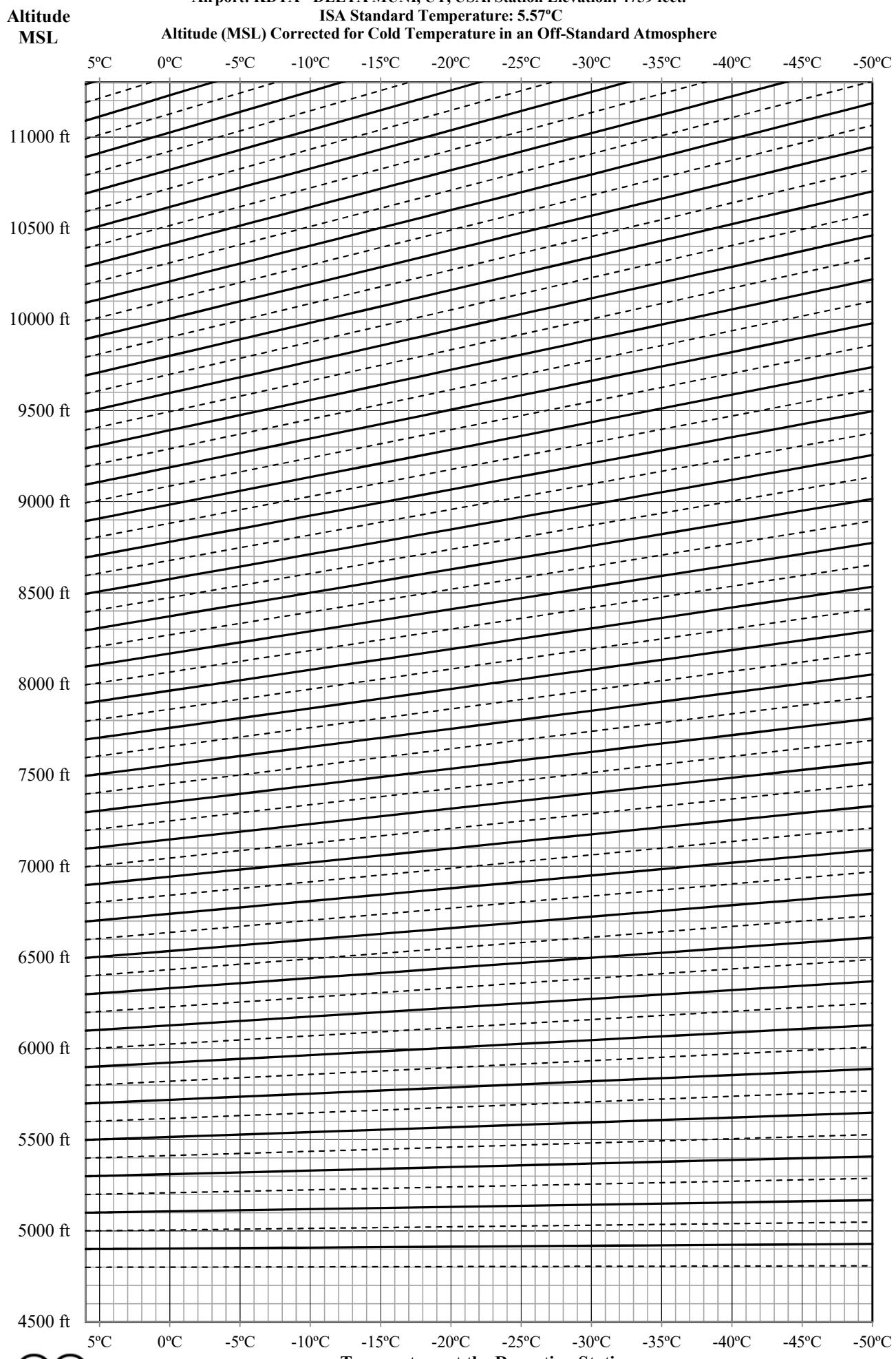
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flightdeckengineering.com

Airport: KDTA - DELTA MUNI, UT, USA. Station Elevation: 4759 feet.

ISA Standard Temperature: 5.57°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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Temperature at the Reporting Station

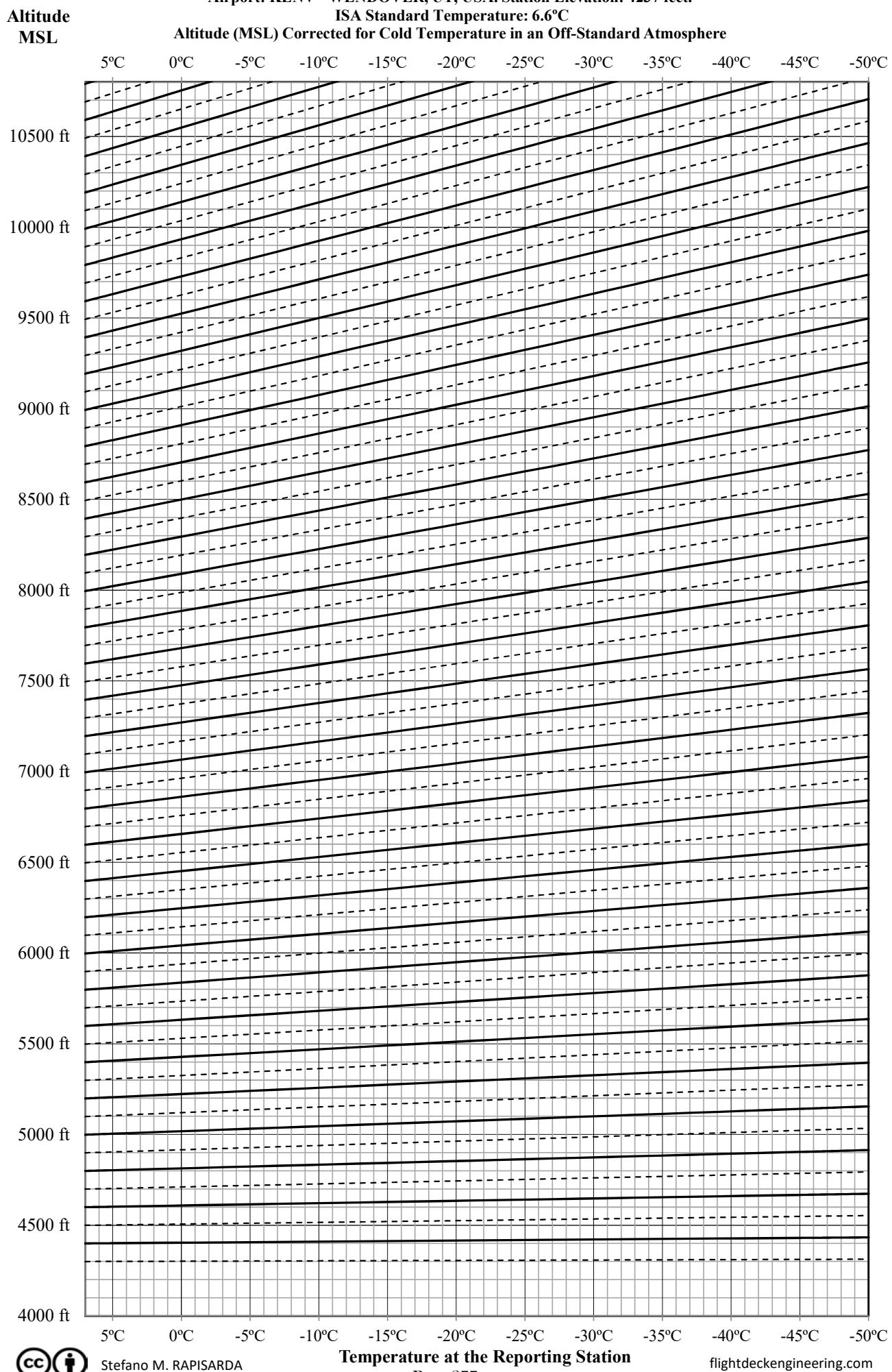
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flightdeckengineering.com

Airport: KENV - WENDOVER, UT, USA. Station Elevation: 4237 feet.

ISA Standard Temperature: 6.6°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



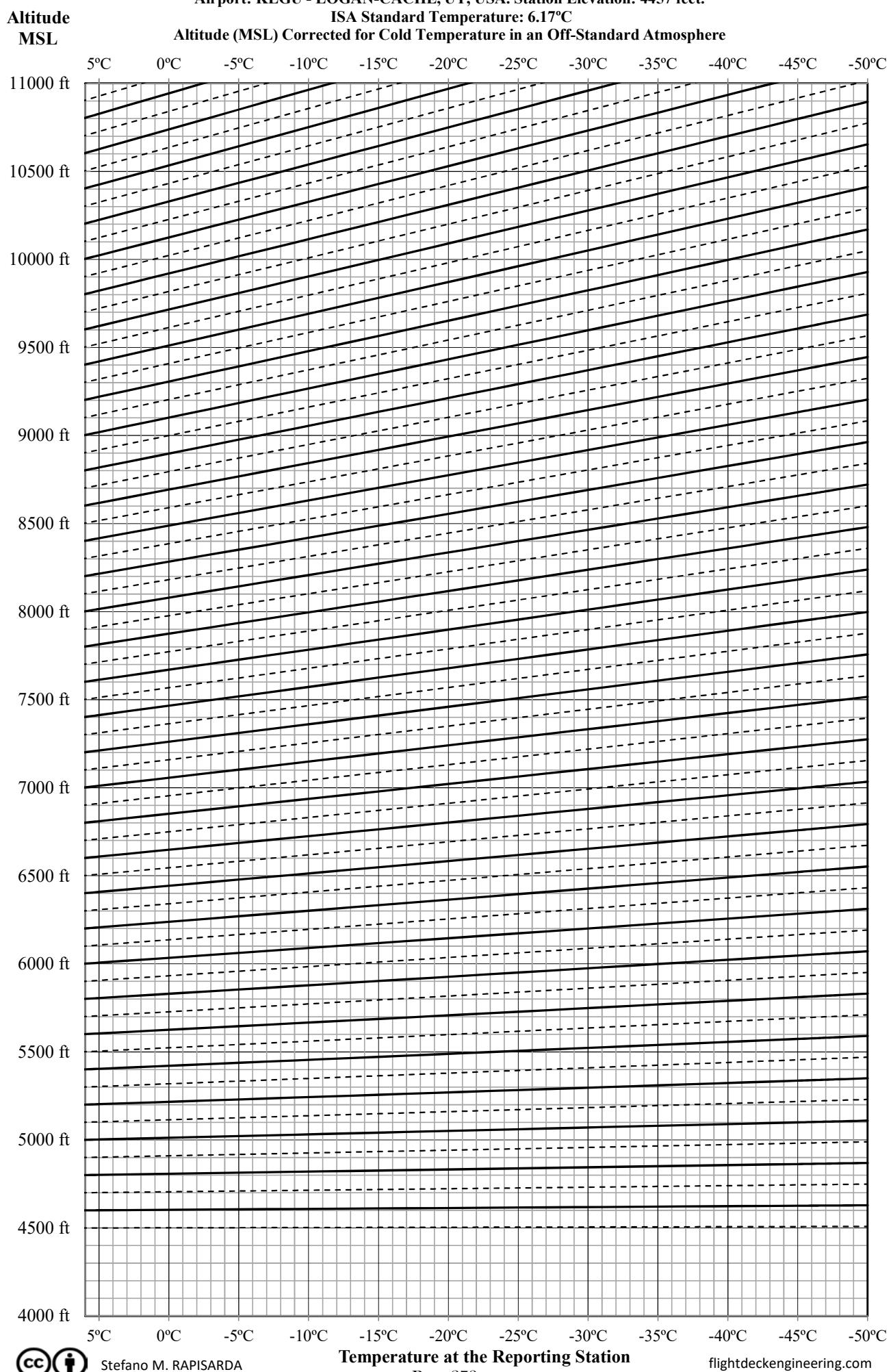
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Temperature at the Reporting Station

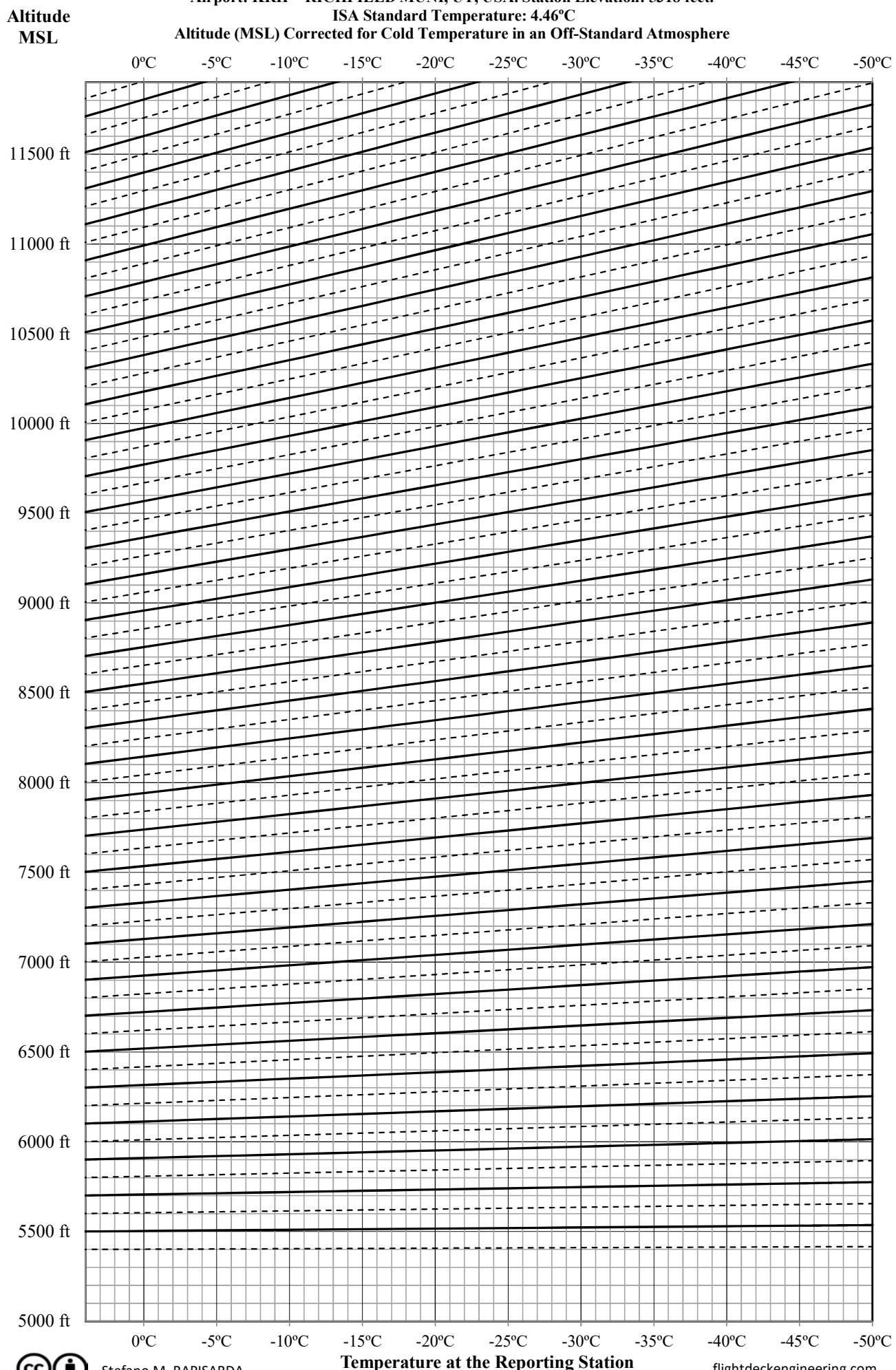
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Airport: KLGU - LOGAN-CACHE, UT, USA. Station Elevation: 4457 feet.
ISA Standard Temperature: 6.17°C
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



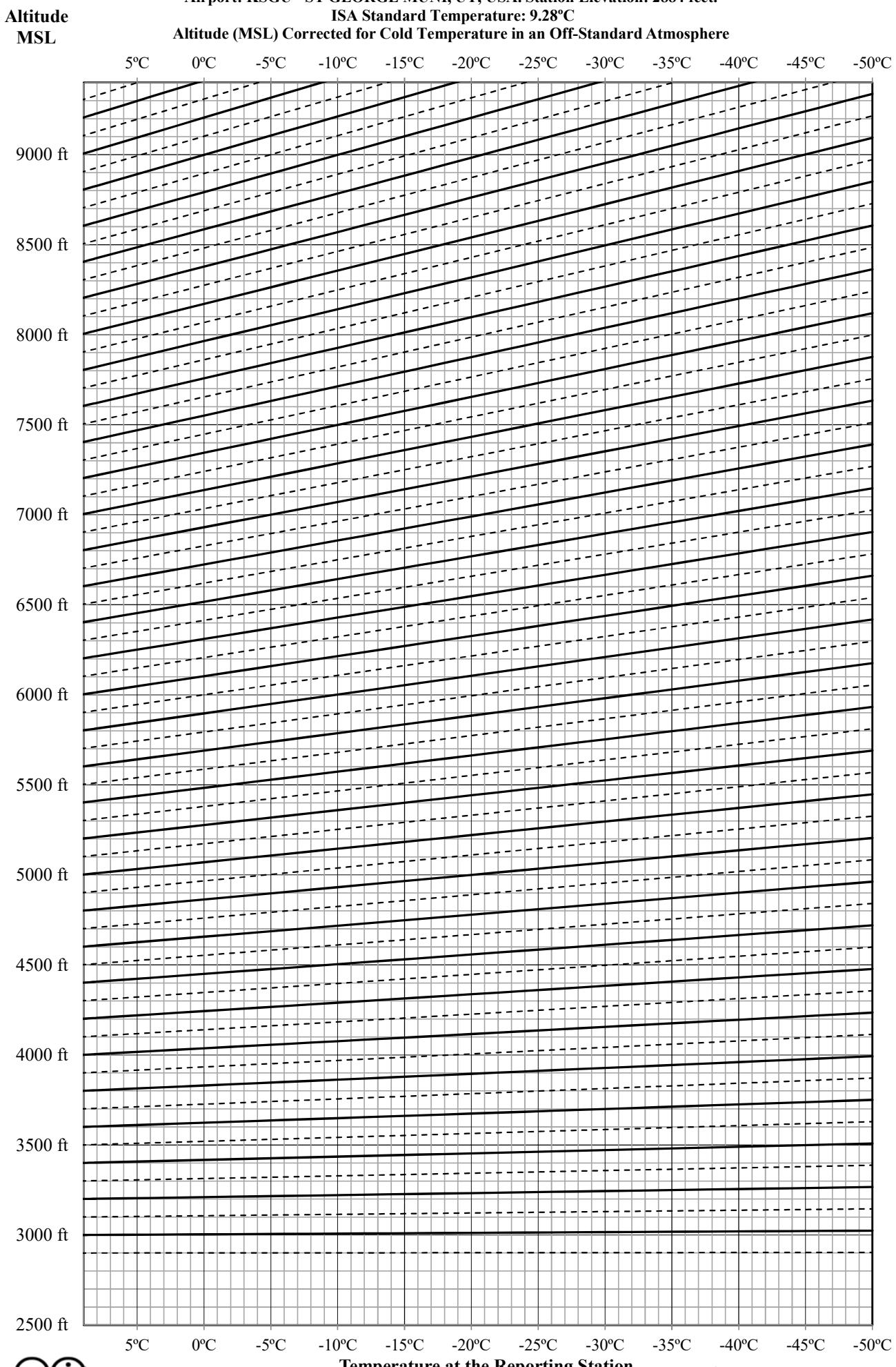
Airport: KRIF - RICHLFIELD MUNI, UT, USA. Station Elevation: 5318 feet.
ISA Standard Temperature: 4.46°C
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KSGU - ST GEORGE MUNI, UT, USA. Station Elevation: 2884 feet.

ISA Standard Temperature: 9.28°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



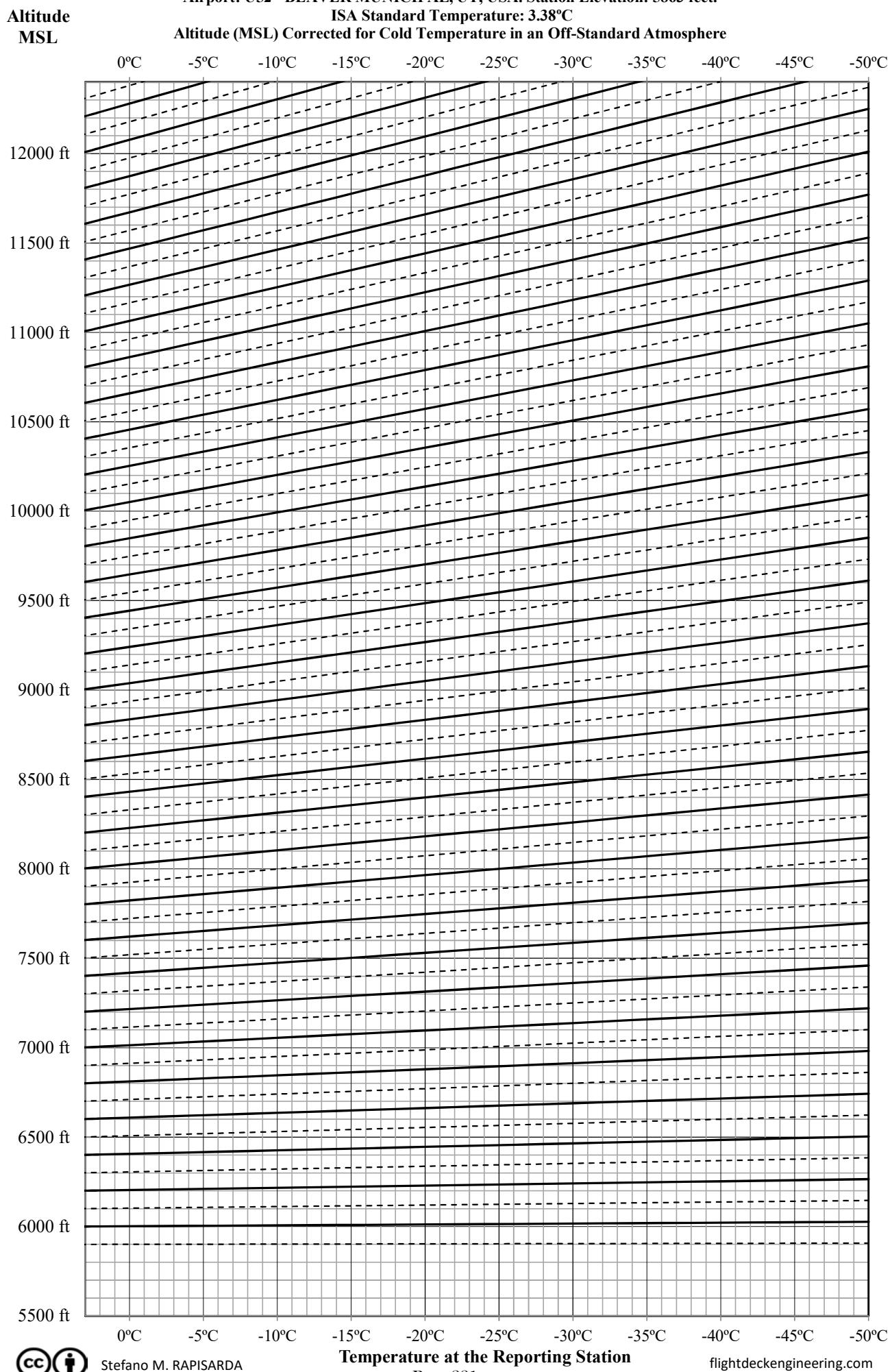
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Temperature at the Reporting Station

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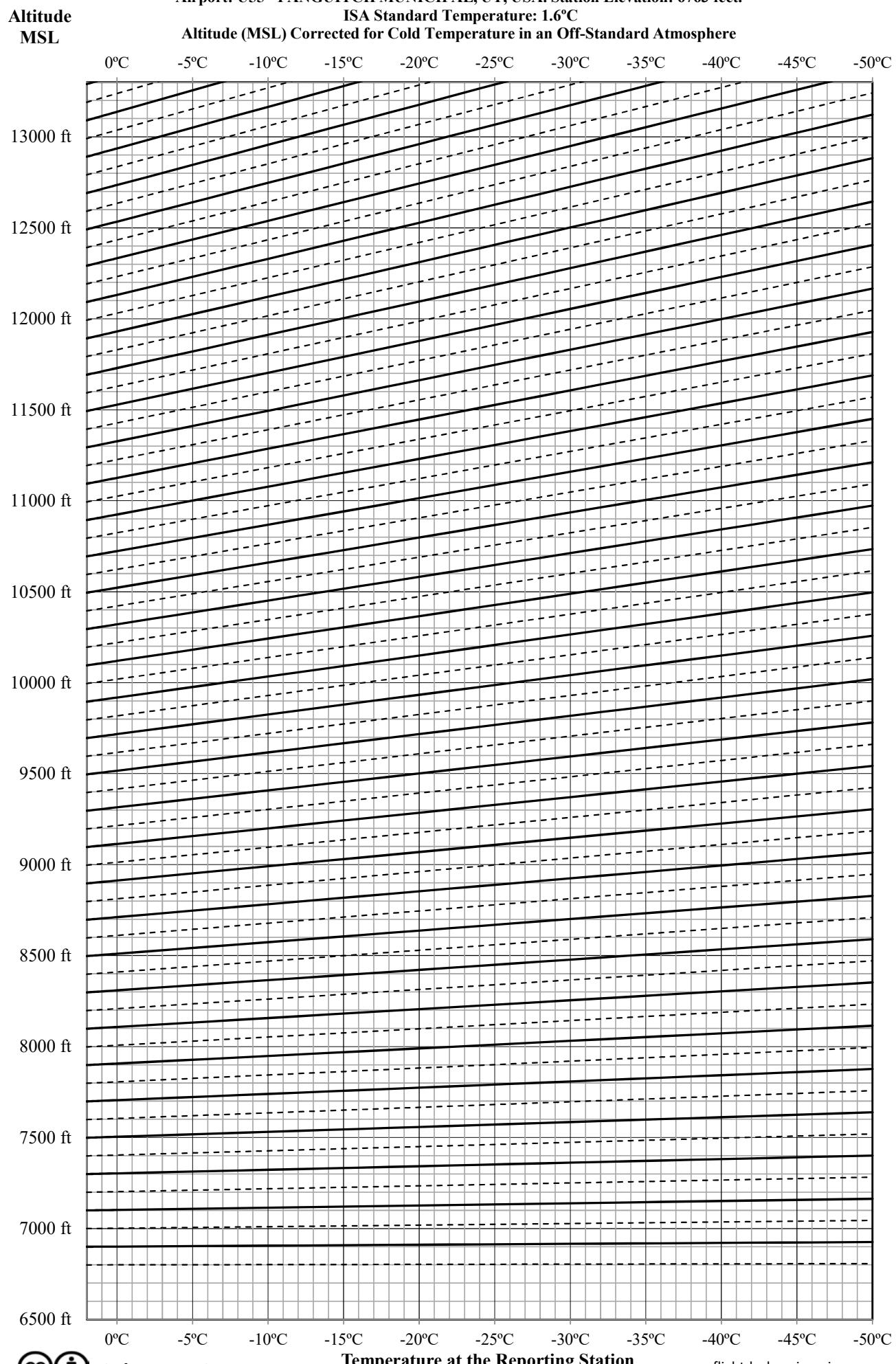
Airport: U52 - BEAVER MUNICIPAL, UT, USA. Station Elevation: 5863 feet.
ISA Standard Temperature: 3.38°C
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: U55 - PANGUITCH MUNICIPAL, UT, USA. Station Elevation: 6763 feet.

ISA Standard Temperature: 1.6°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere





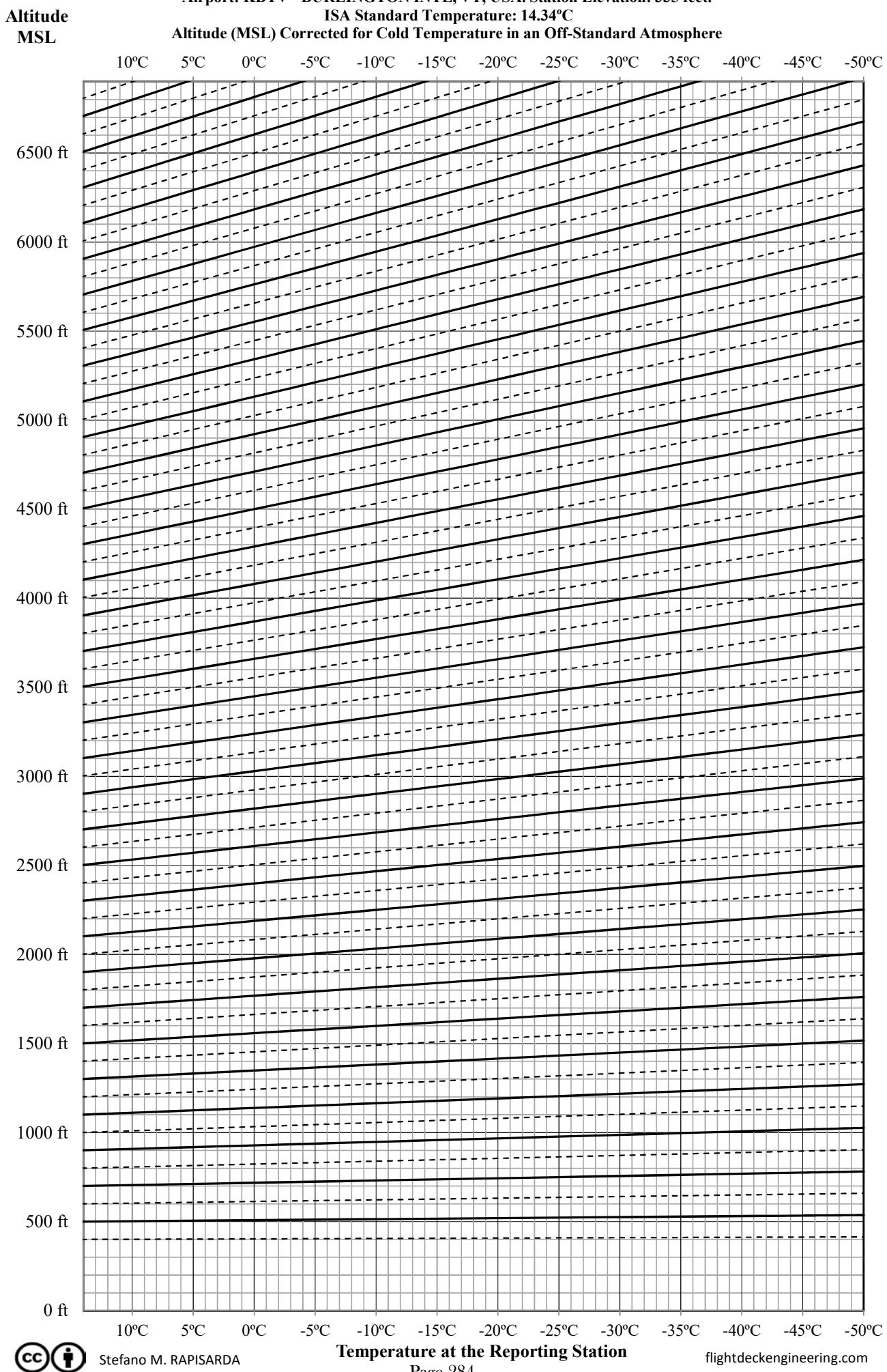
28 Vermont Cold Temperature Restricted Airports

28.1	KBTV BURLINGTON INTL, VT, USA.....	284
28.2	KDDH BENNINGTON - WILLIAM H. MORSE STATE, VT, USA	285
28.3	KEFK NEWPORT STATE, VT, USA.....	286
28.4	KMPV BARRE/MONTPELIER - EDWARD F KNAPP STATE, VT, USA	287
28.5	KMVL MORRISVILLE-STOWE STATE, VT, USA	288
28.6	KRUT RUTLAND-SOUTHERN VERMONT RGNL, VT, USA	289
28.7	KVSF HARTNESS STATE (SPRINGFIELD), VT, USA.....	290

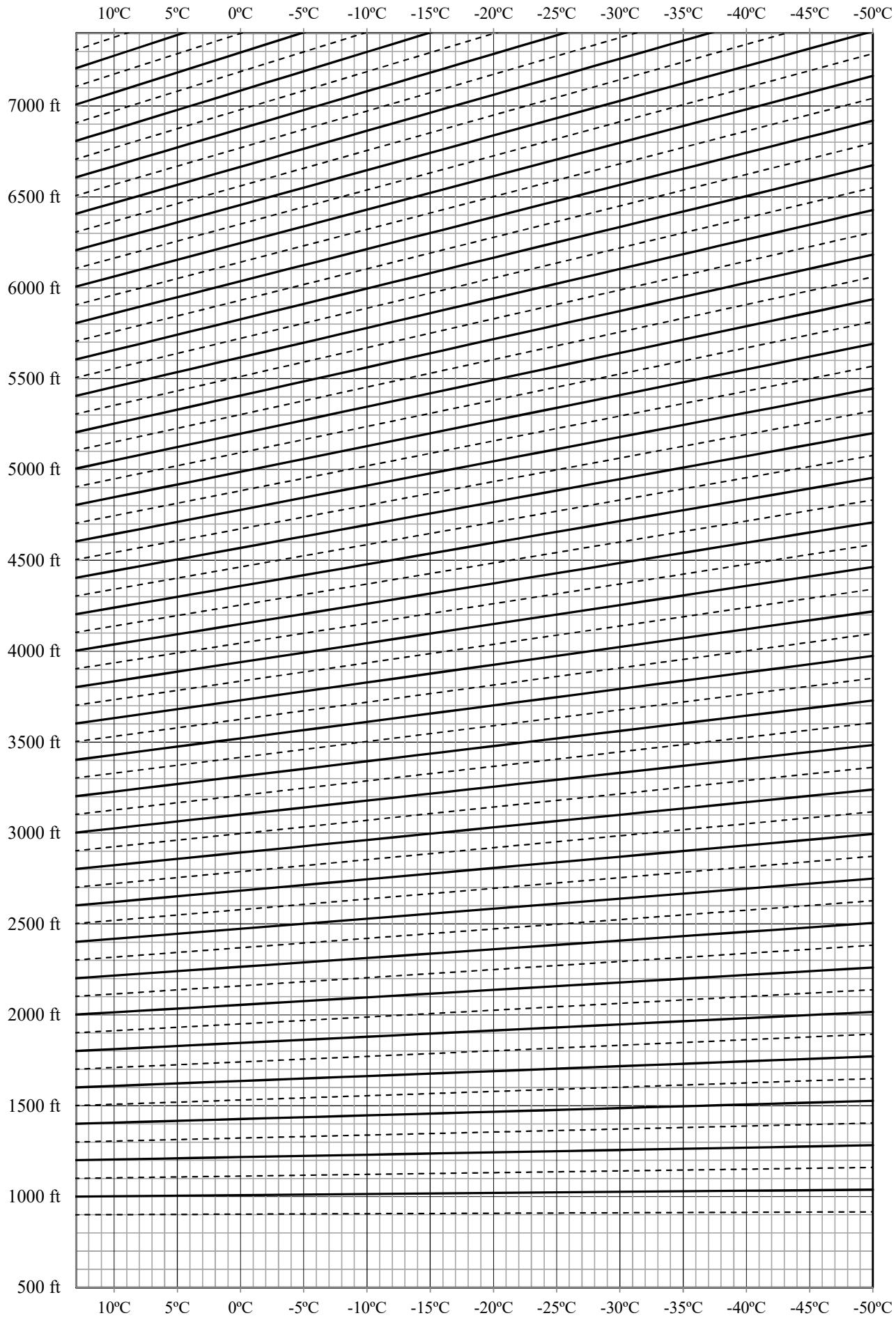
Airport: KBTV - BURLINGTON INTL, VT, USA. Station Elevation: 335 feet.

ISA Standard Temperature: 14.34°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



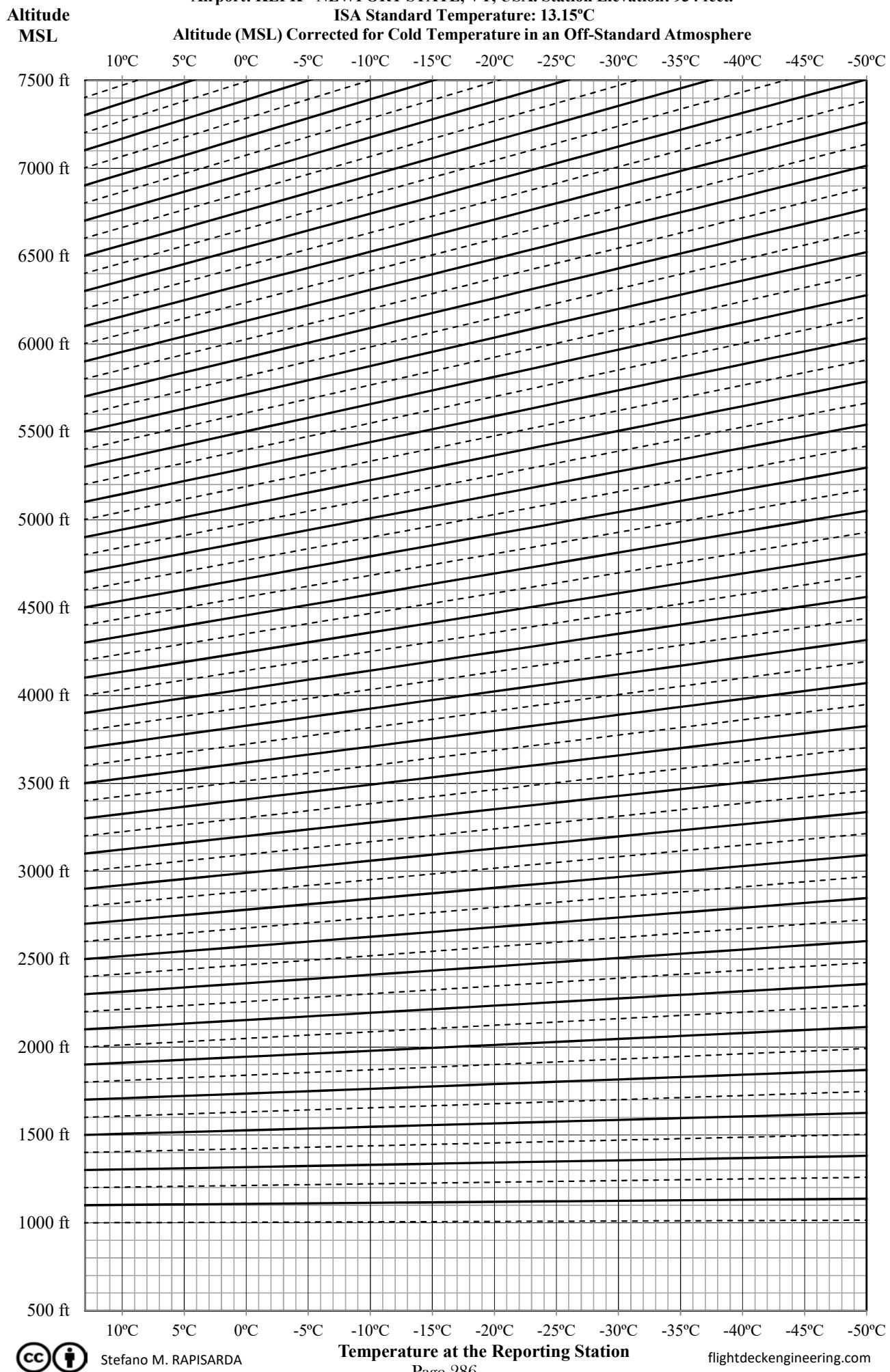
**Altitude
MSL**



Airport: KEFK - NEWPORT STATE, VT, USA. Station Elevation: 934 feet.

ISA Standard Temperature: 13.15°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Altitude
MSL

10°C 5°C 0°C -5°C -10°C -15°C -20°C -25°C -30°C -35°C -40°C -45°C -50°C

7500 ft

7000 ft

6500 ft

6000 ft

5500 ft

5000 ft

4500 ft

4000 ft

3500 ft

3000 ft

2500 ft

2000 ft

1500 ft

1000 ft

10°C 5°C 0°C -5°C -10°C -15°C -20°C -25°C -30°C -35°C -40°C -45°C -50°C

Temperature at the Reporting Station

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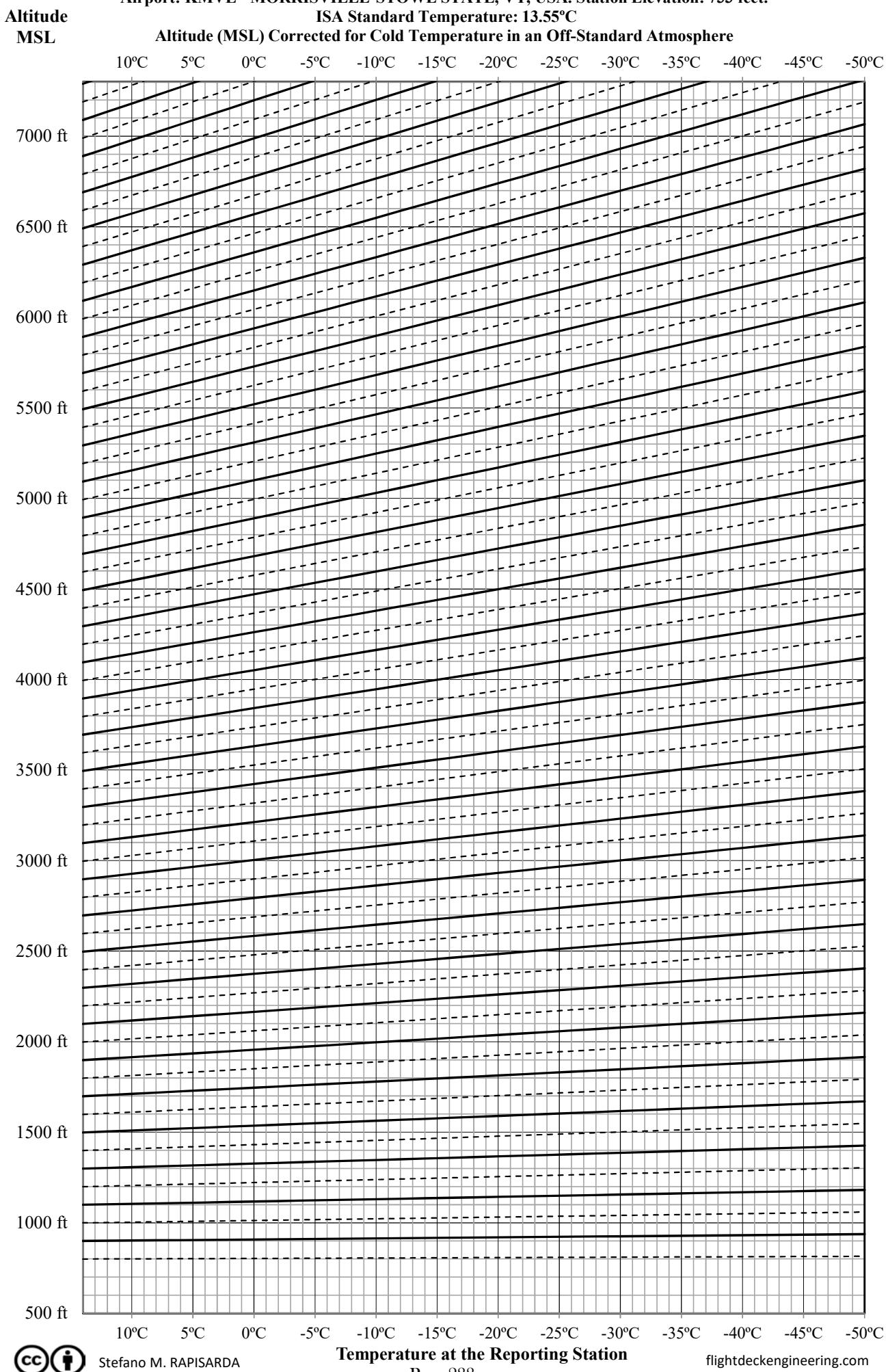


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Airport: KMVL - MORRISVILLE-STOWE STATE, VT, USA. Station Elevation: 733 feet.

ISA Standard Temperature: 13.55°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

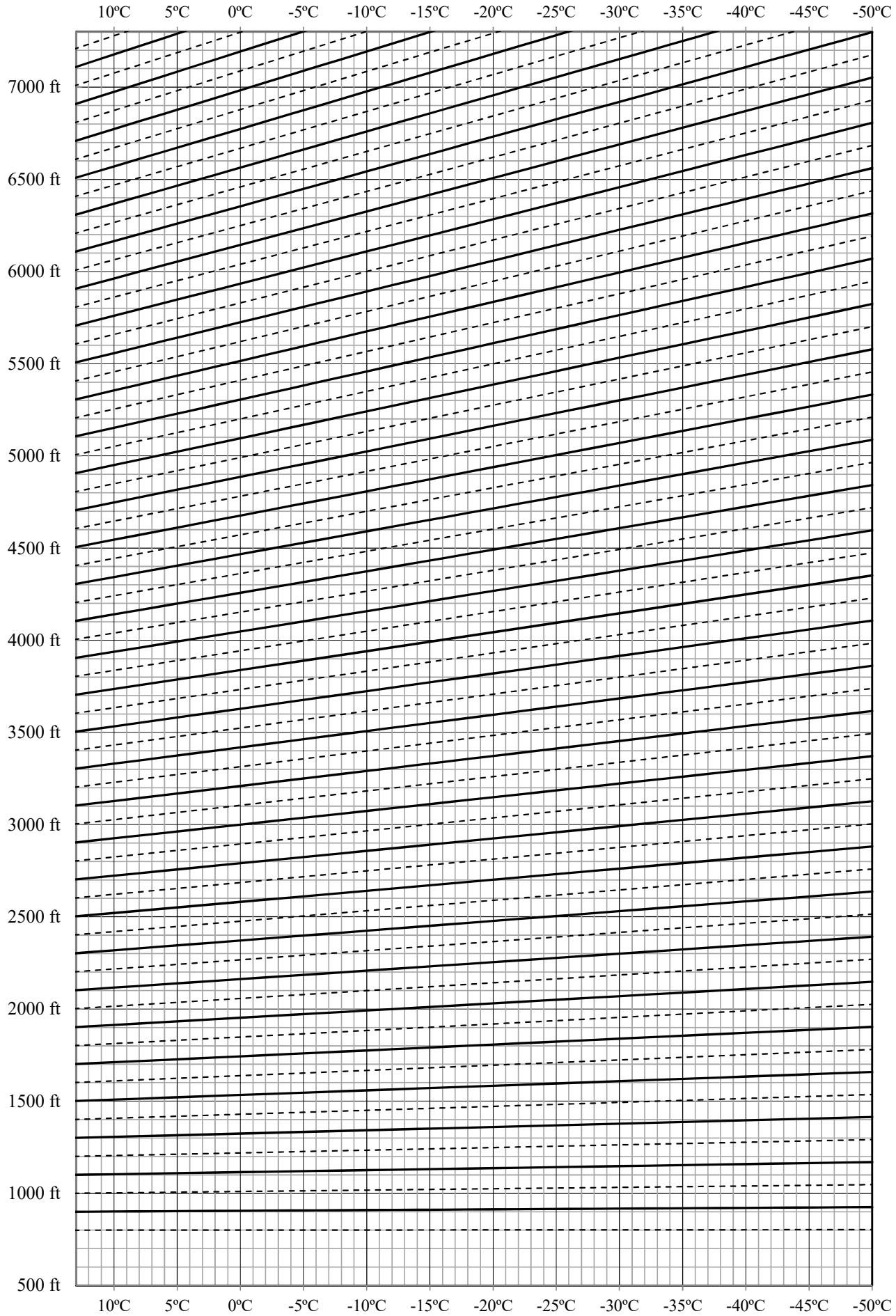


Airport: KRUT - RUTLAND-SOUTHERN VERMONT RGNL, VT, USA. Station Elevation: 787 feet.

ISA Standard Temperature: 13.44°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

Altitude
MSL



Stefano M. RAPISARDA

Temperature at the Reporting Station

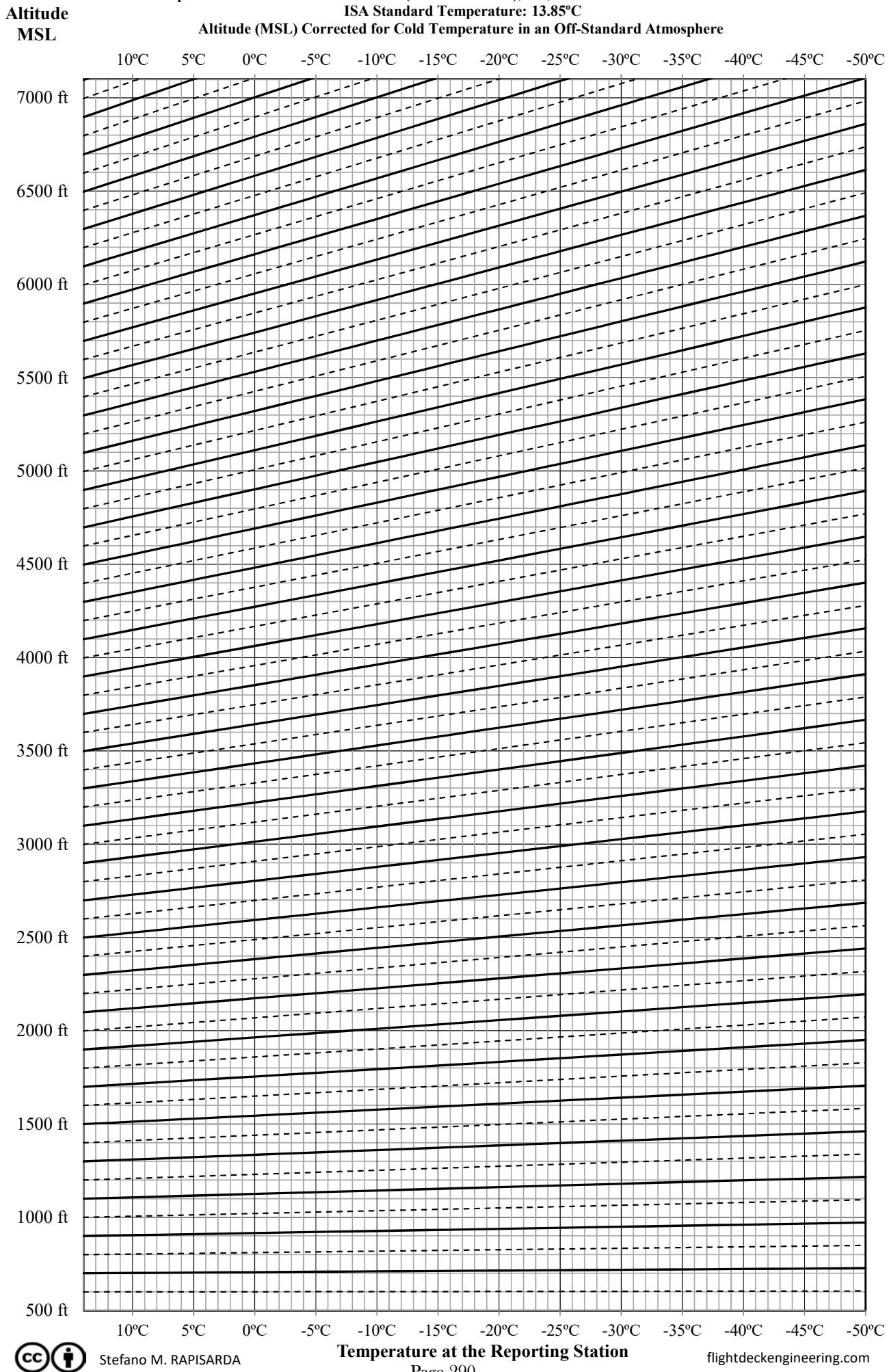
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Airport: KVSF - HARTNESS STATE (SPRINGFIELD), VT, USA. Station Elevation: 578 feet.

ISA Standard Temperature: 13.85°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere





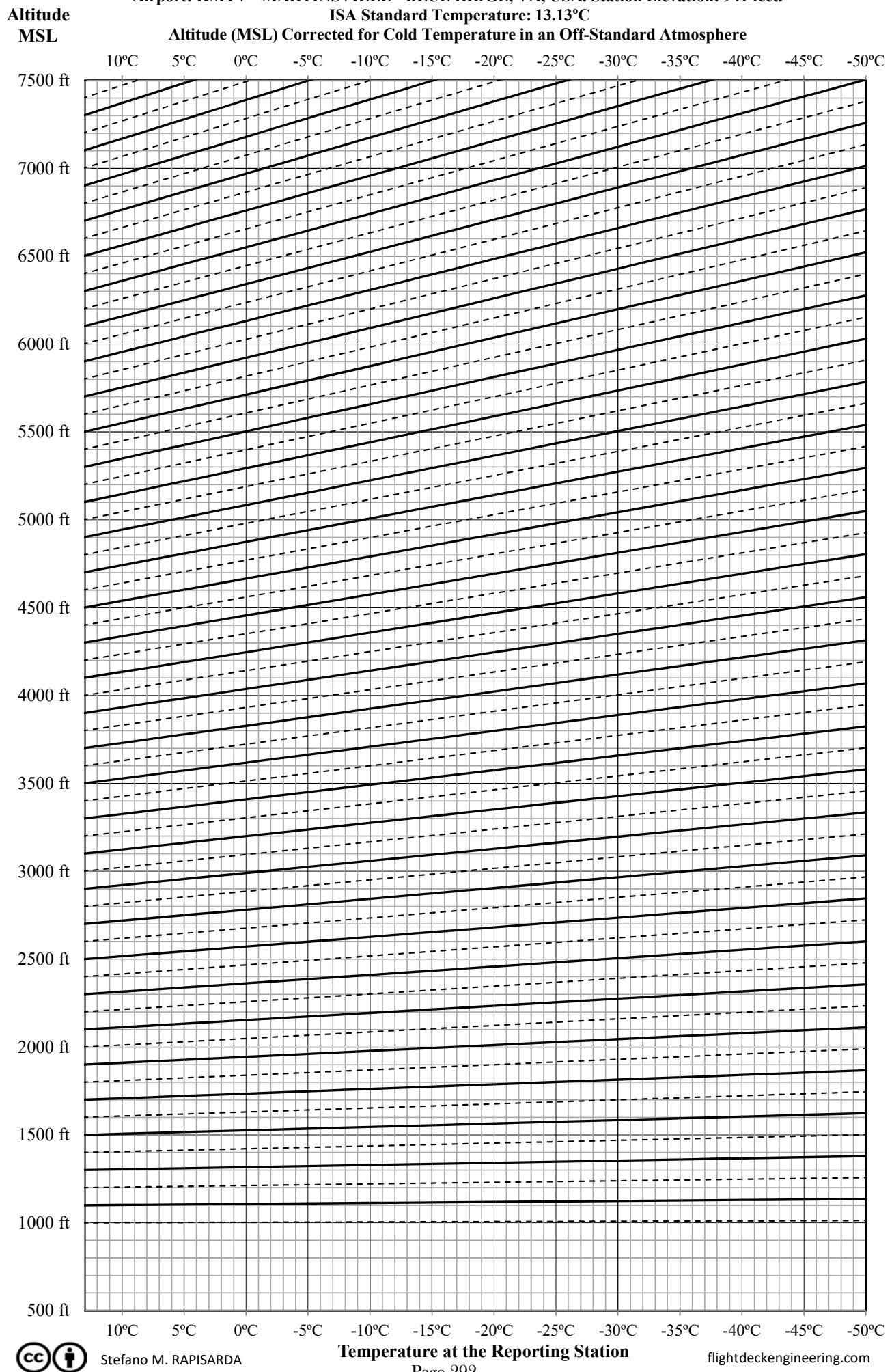
29 Virginia Cold Temperature Restricted Airports

29.1	KMTV MARTINSVILLE - BLUE RIDGE, VA, USA	292
29.2	KROA ROANOKE-BLACKSBURG RGNL/WOODRUM FIELD, VA, USA.....	293
29.3	KVBW BRIDGEWATER AIR PARK, VA, USA.....	294
29.4	W13 WAYNESBORO - EAGLE'S NEST, VA, USA.....	295

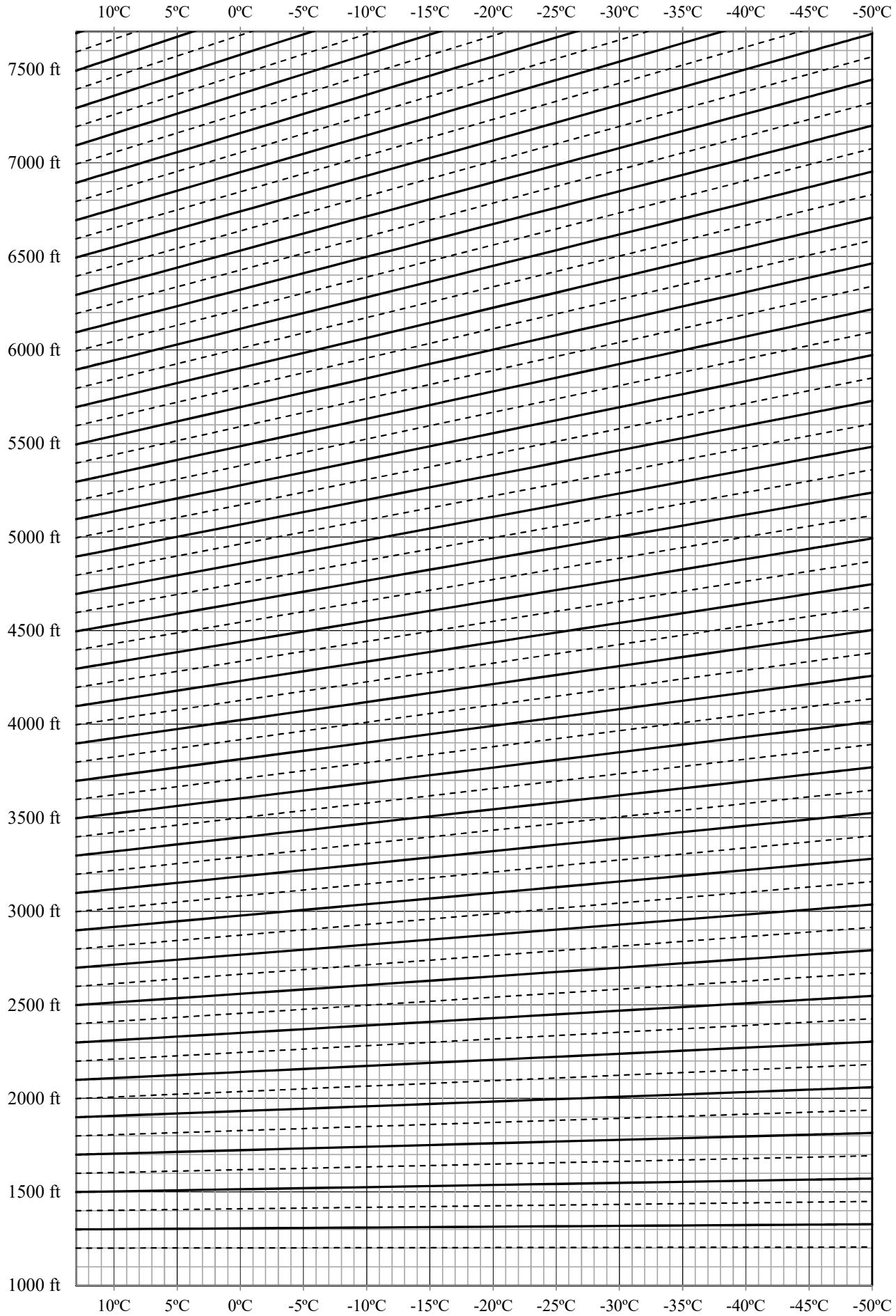
Airport: KMTV - MARTINSVILLE - BLUE RIDGE, VA, USA. Station Elevation: 941 feet.

ISA Standard Temperature: 13.13°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



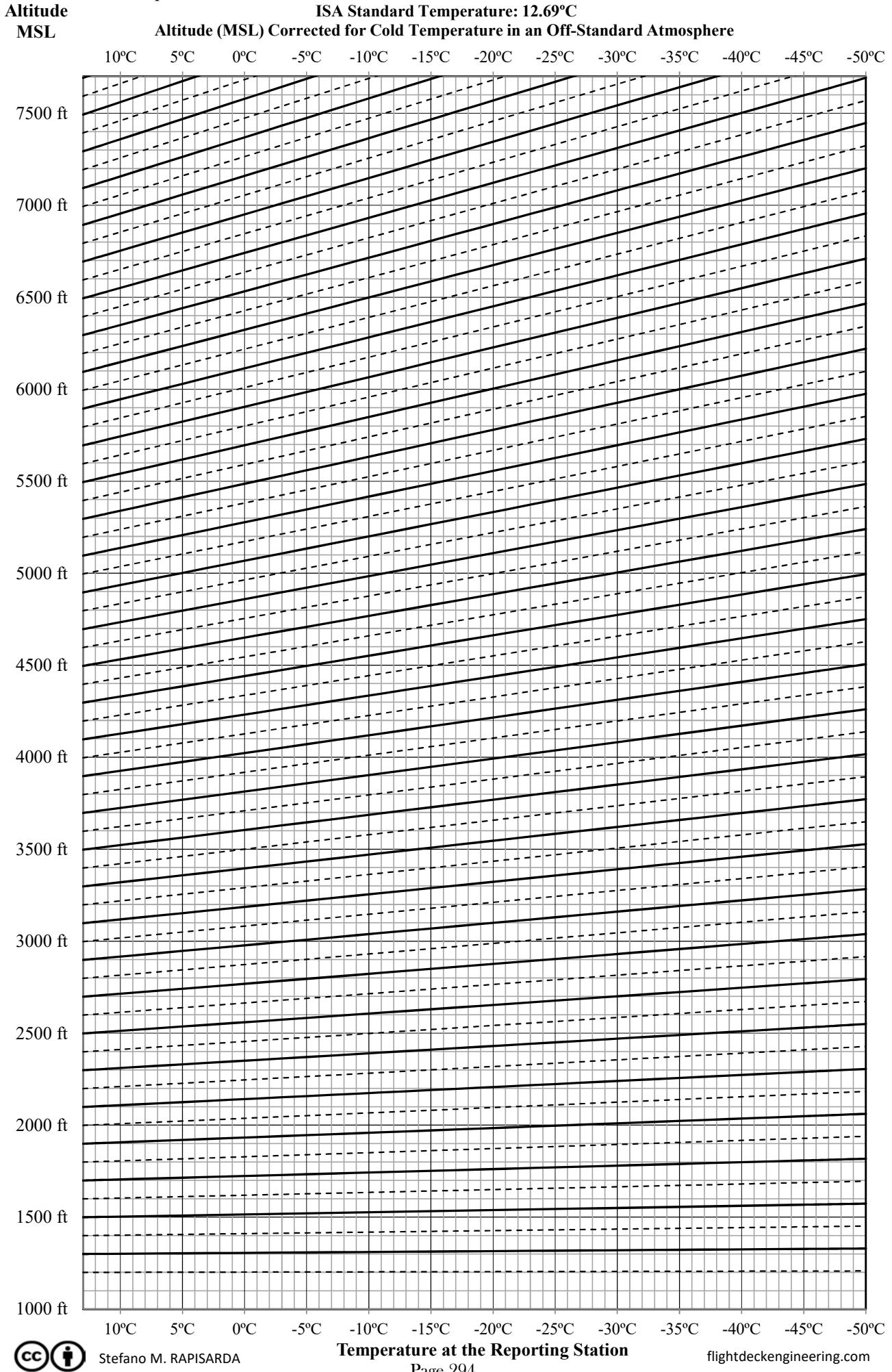
Altitude
MSL



Airport: KVBW - BRIDGEWATER AIR PARK, VA, USA. Station Elevation: 1165 feet.

ISA Standard Temperature: 12.69°C

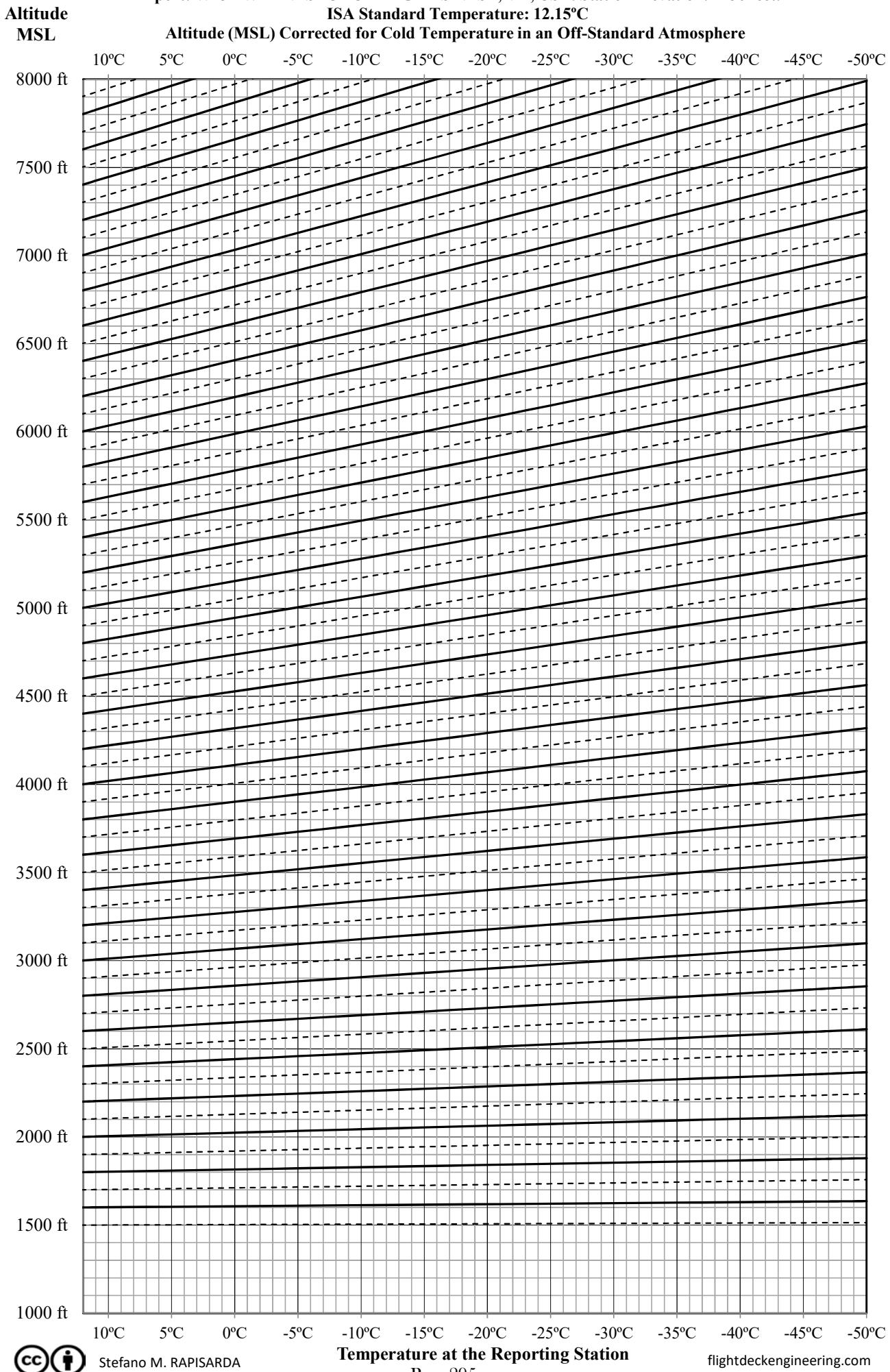
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: W13 - WAYNESBORO - EAGLE'S NEST, VA, USA. Station Elevation: 1436 feet.

ISA Standard Temperature: 12.15°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere





30 Washington State Cold Temperature Restricted Airports

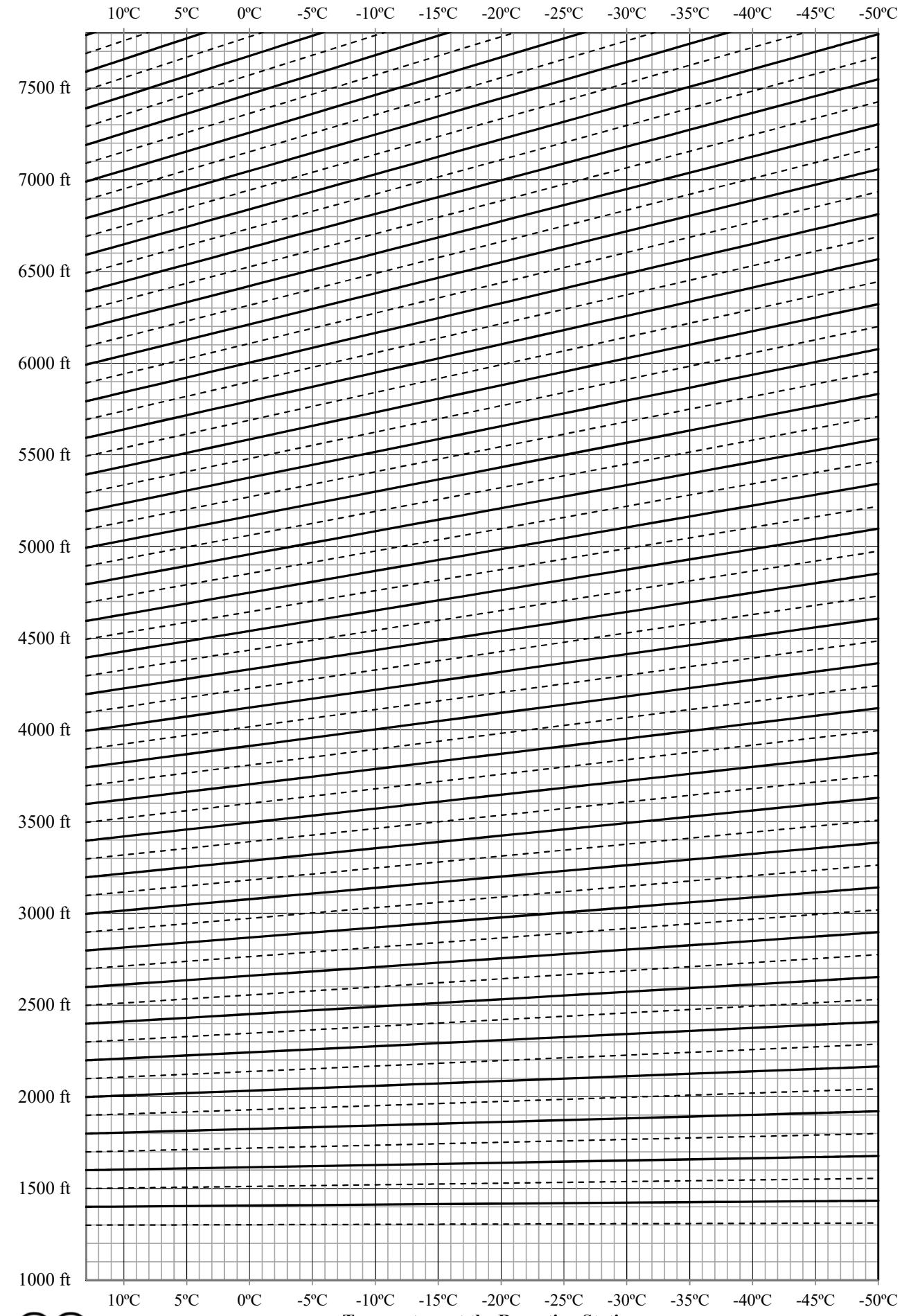
30.1	KEAT WENATCHEE - PANGBORN MEMORIAL, WA, USA.....	297
30.2	KELN ELLENSBURG - BOWERS FIELD, WA, USA.....	298
30.3	KOMK OMAK, WA, USA.....	299

Airport: KEAT - WENATCHEE - PANGBORN MEMORIAL, WA, USA. Station Elevation: 1249 feet.

ISA Standard Temperature: 12.52°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

Altitude
MSL



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Temperature at the Reporting Station

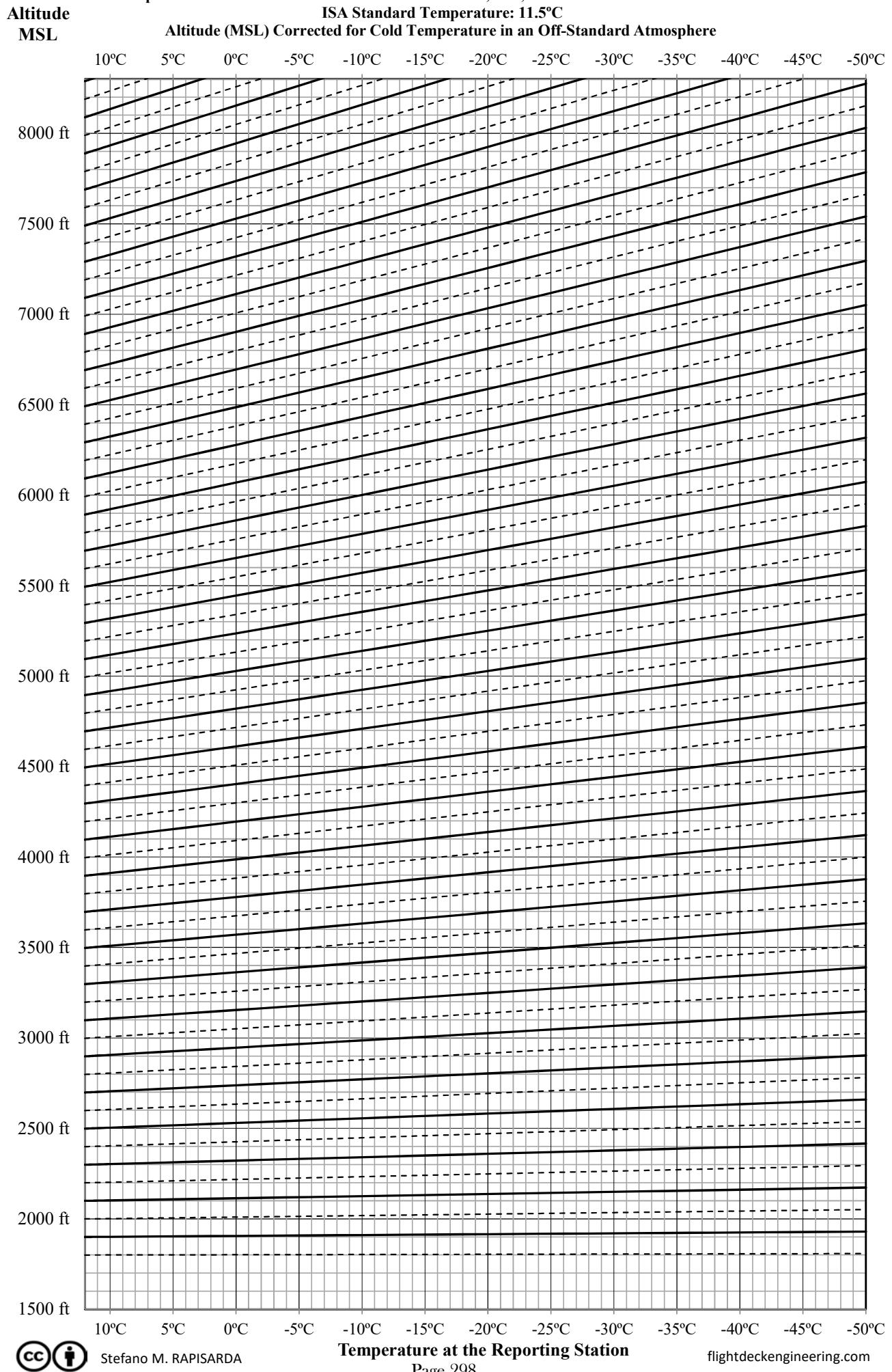
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Airport: KELN - ELLENSBURG - BOWERS FIELD, WA, USA. Station Elevation: 1764 feet.

ISA Standard Temperature: 11.5°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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Temperature at the Reporting Station

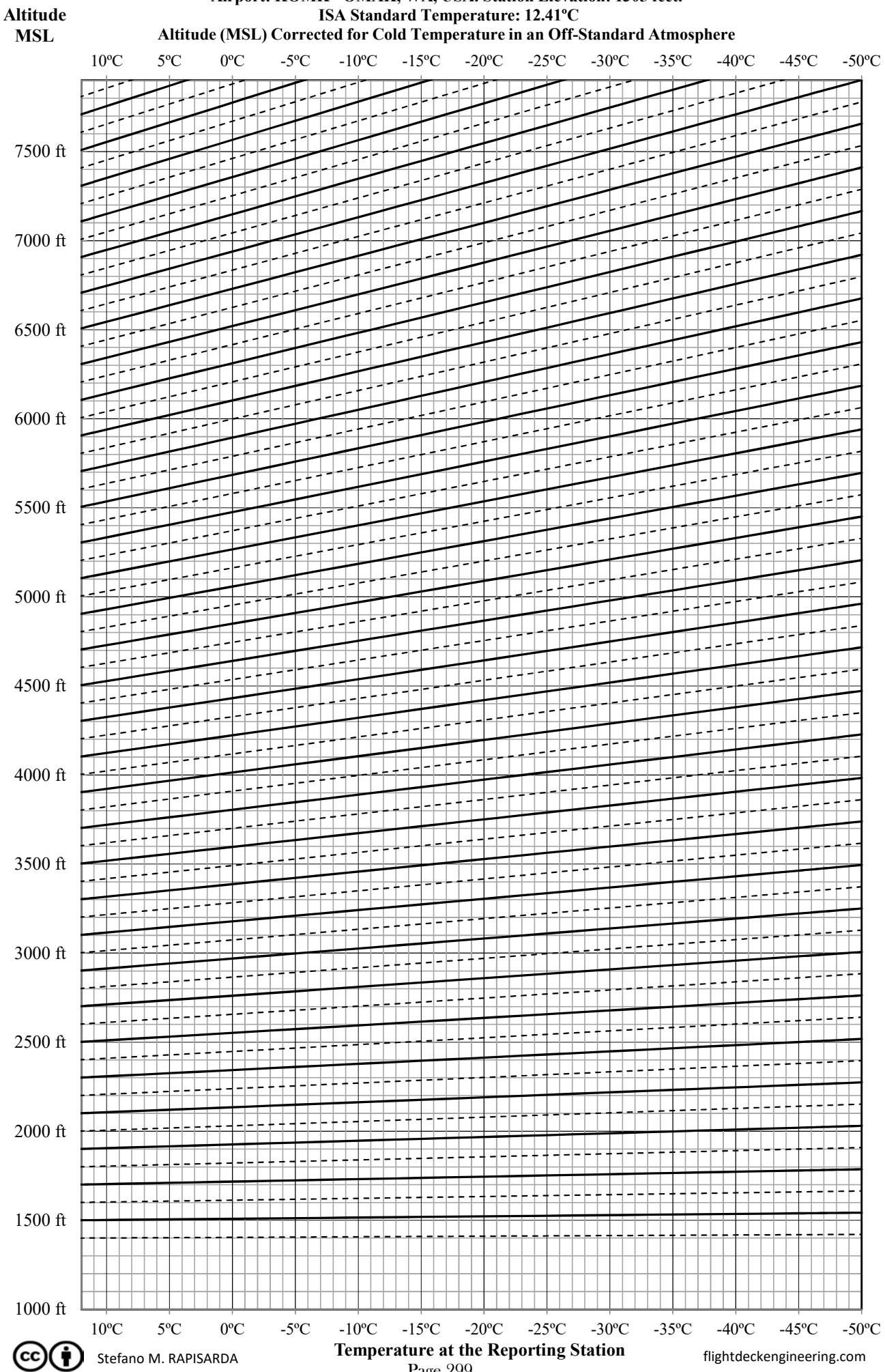
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Airport: KOMK - OMAK, WA, USA. Station Elevation: 1305 feet.

ISA Standard Temperature: 12.41°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

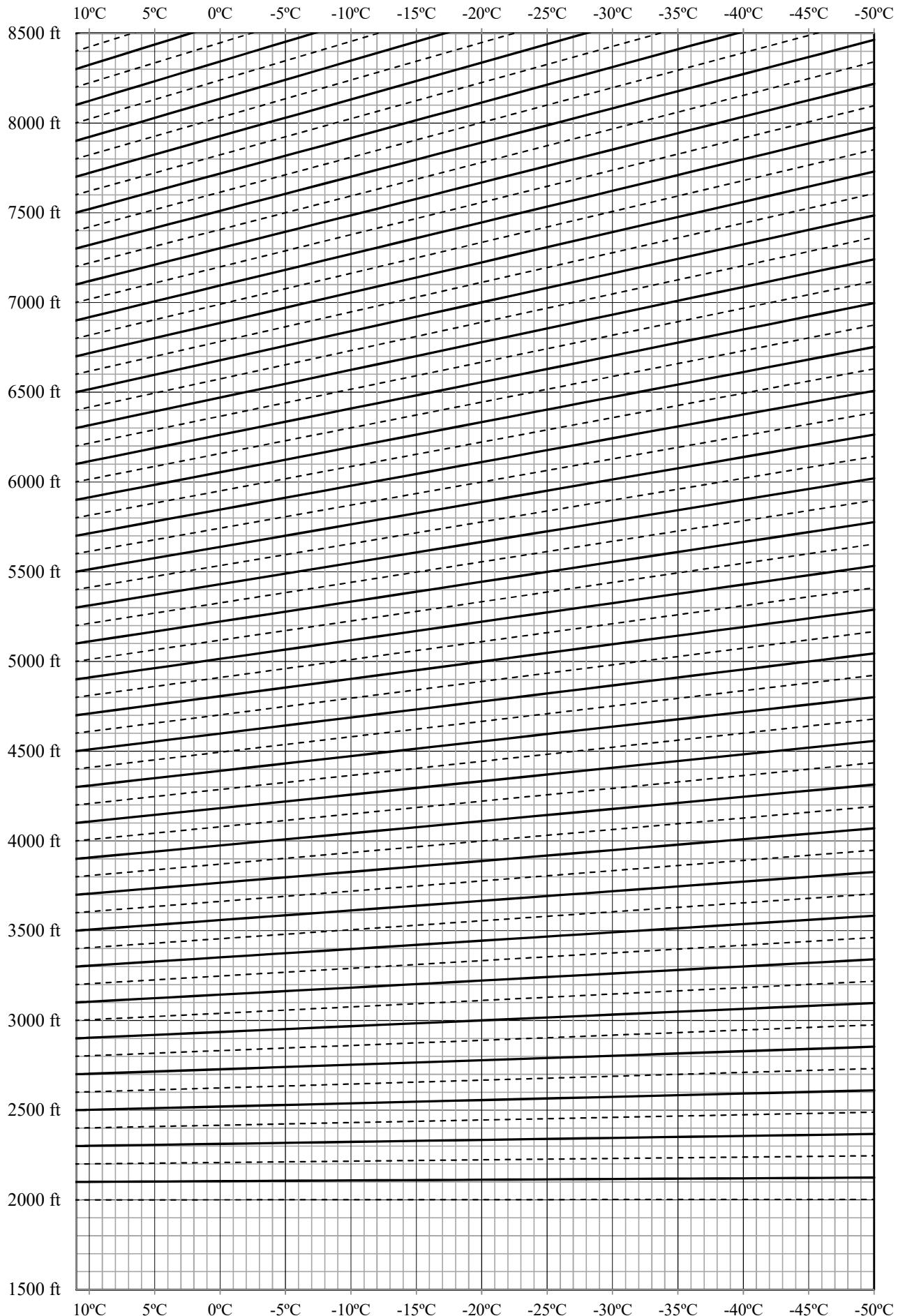




31 West Virginia Cold Temperature Restricted Airports

31.1	KEKN ELKINS-RANDOLPH COUNTY JENNINGS RANDOLPH FIELD, WV, USA	301
31.2	W99 PETERSBURG - GRANT COUNTY, WV, USA	302
31.3	3I2 POINT PLEASANT - MASON COUNTY, WV, USA	303

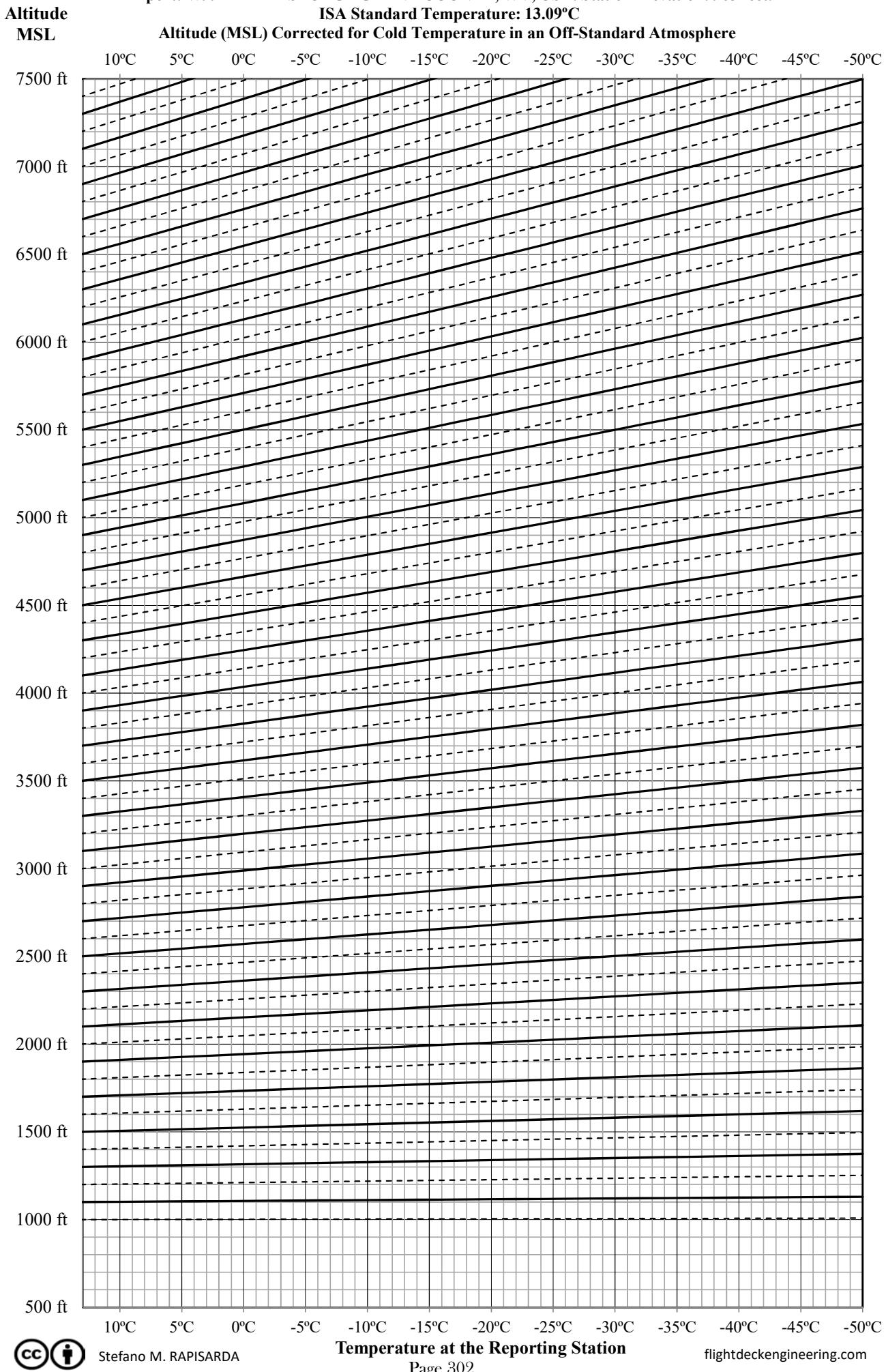
**Altitude
MSL**



Airport: W99 - PETERSBURG - GRANT COUNTY, WV, USA. Station Elevation: 963 feet.

ISA Standard Temperature: 13.09°C

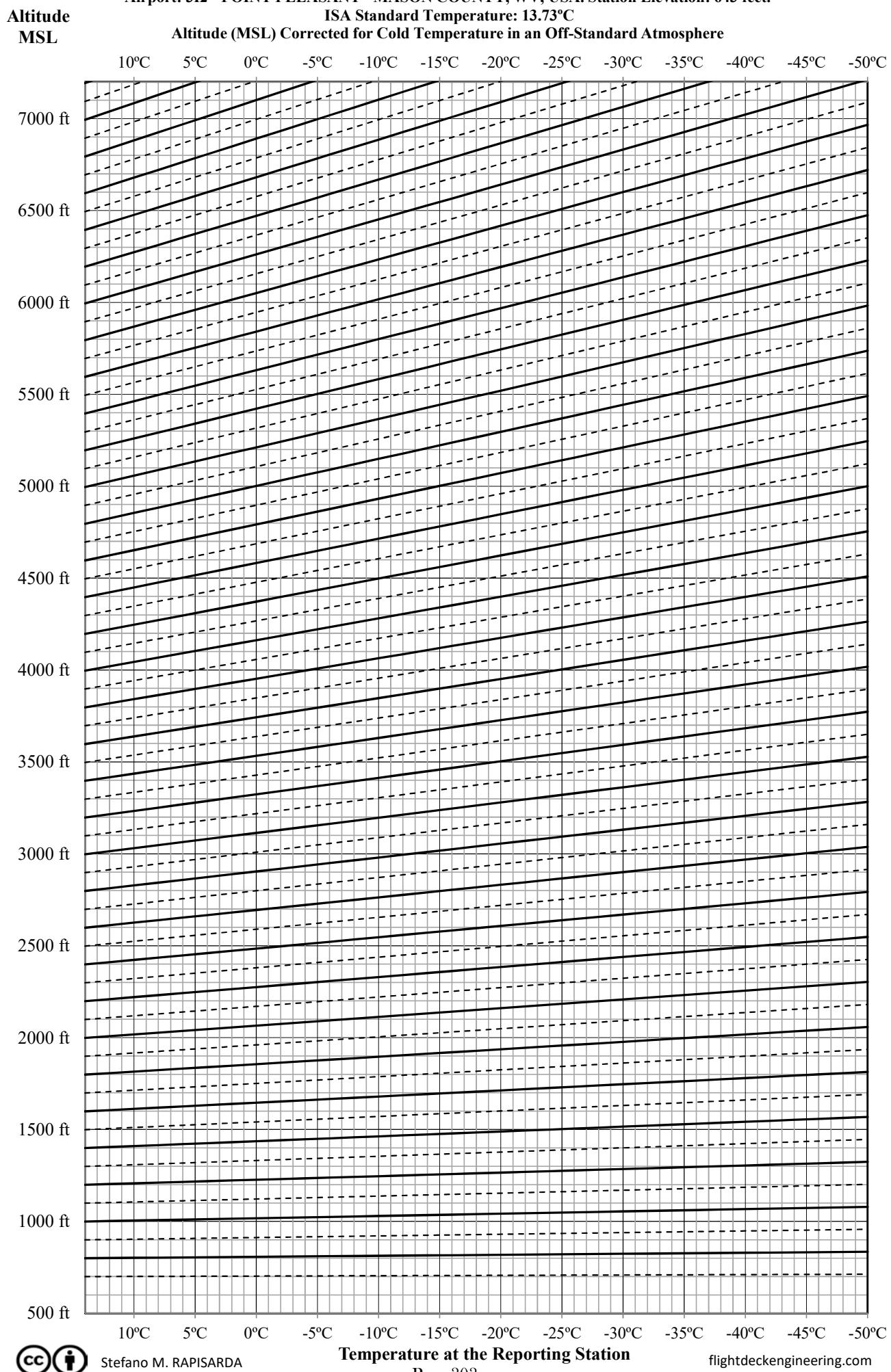
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: 3I2 - POINT PLEASANT - MASON COUNTY, WV, USA. Station Elevation: 643 feet.

ISA Standard Temperature: 13.73°C

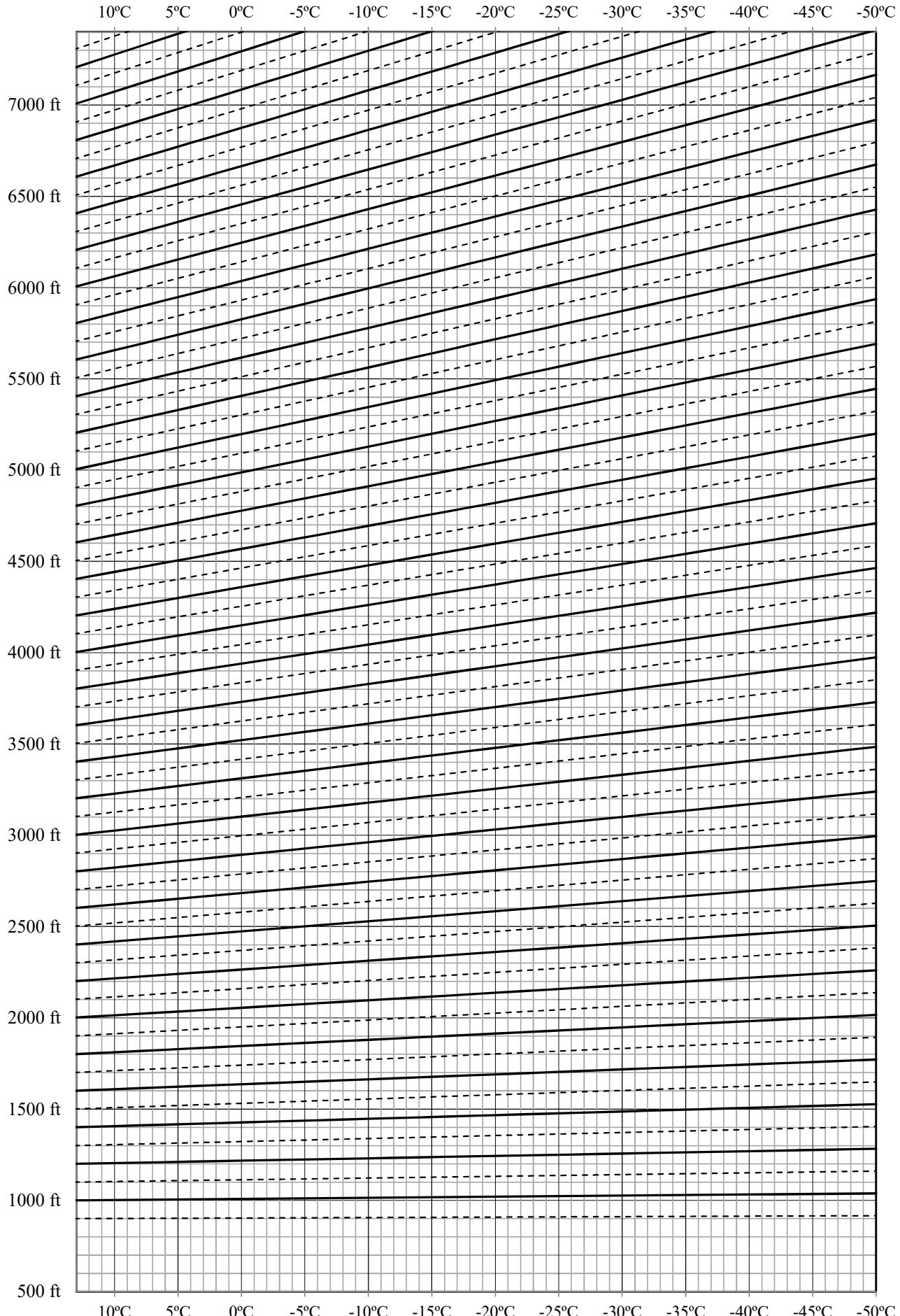
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere





32 Wisconsin Cold Temperature Restricted Airports

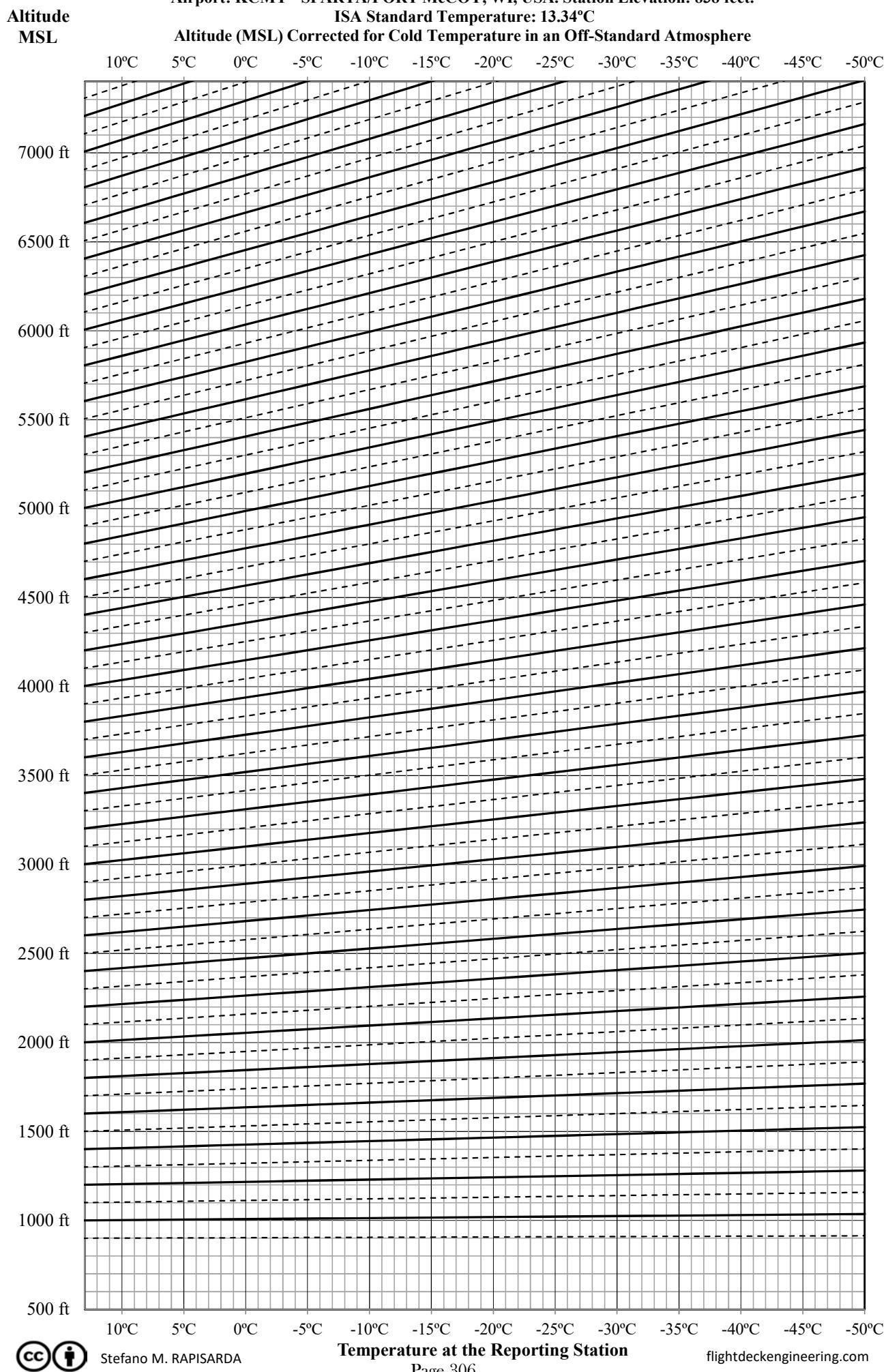
32.1	KASX ASHLAND -JOHN F. KENNEDY MEMORIAL, WI, USA.....	305
32.2	KCMY SPARTA/FORT McCOY, WI, USA	306
32.3	KLNR LONE ROCK - TRI COUNTY RGNL, WI, USA.....	307
32.4	KLSE LA CROSSE RGNL, WI, USA	308
32.5	KOVS BOSCOBEL, WI, USA.....	309
32.6	KPDC PRARIE DU CHIEN MUNI, WI, USA.....	310
32.7	KRHI RHINELANDER-ONEIDA COUNTY, WI, USA.....	311
32.8	KRPD RICE LAKE RGNL-CARL'S FIELD, WI, USA	312
32.9	4R5 LA POINTE - MAJOR GILBERT FIELD, WI, USA.....	313

Altitude
MSL

Airport: KCMY - SPARTA/FORT McCOY, WI, USA. Station Elevation: 838 feet.

ISA Standard Temperature: 13.34°C

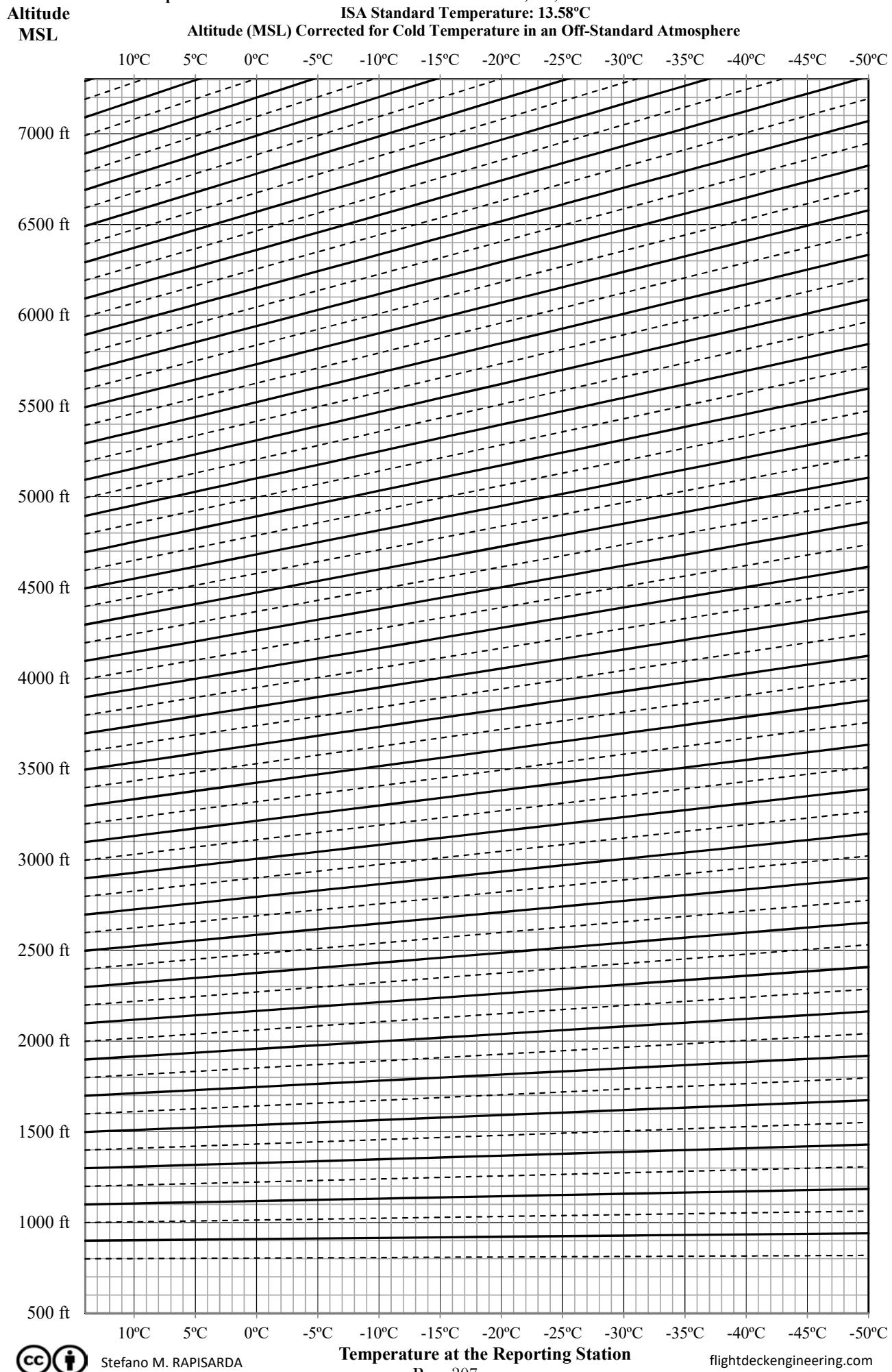
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KLN - LONE ROCK - TRI COUNTY RGNL, WI, USA. Station Elevation: 717 feet.

ISA Standard Temperature: 13.58°C

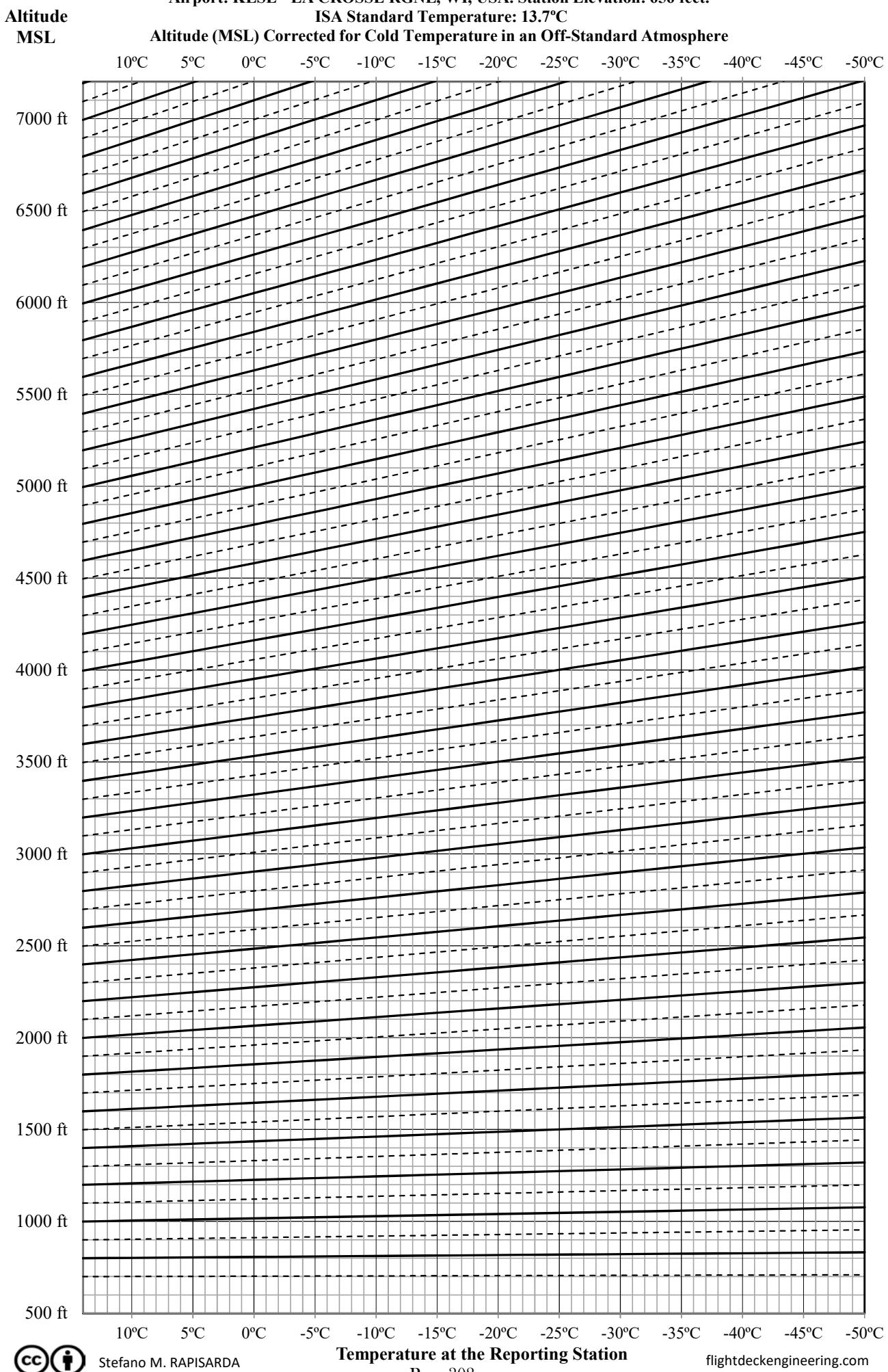
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KLSE - LA CROSSE RGNL, WI, USA. Station Elevation: 656 feet.

ISA Standard Temperature: 13.7°C

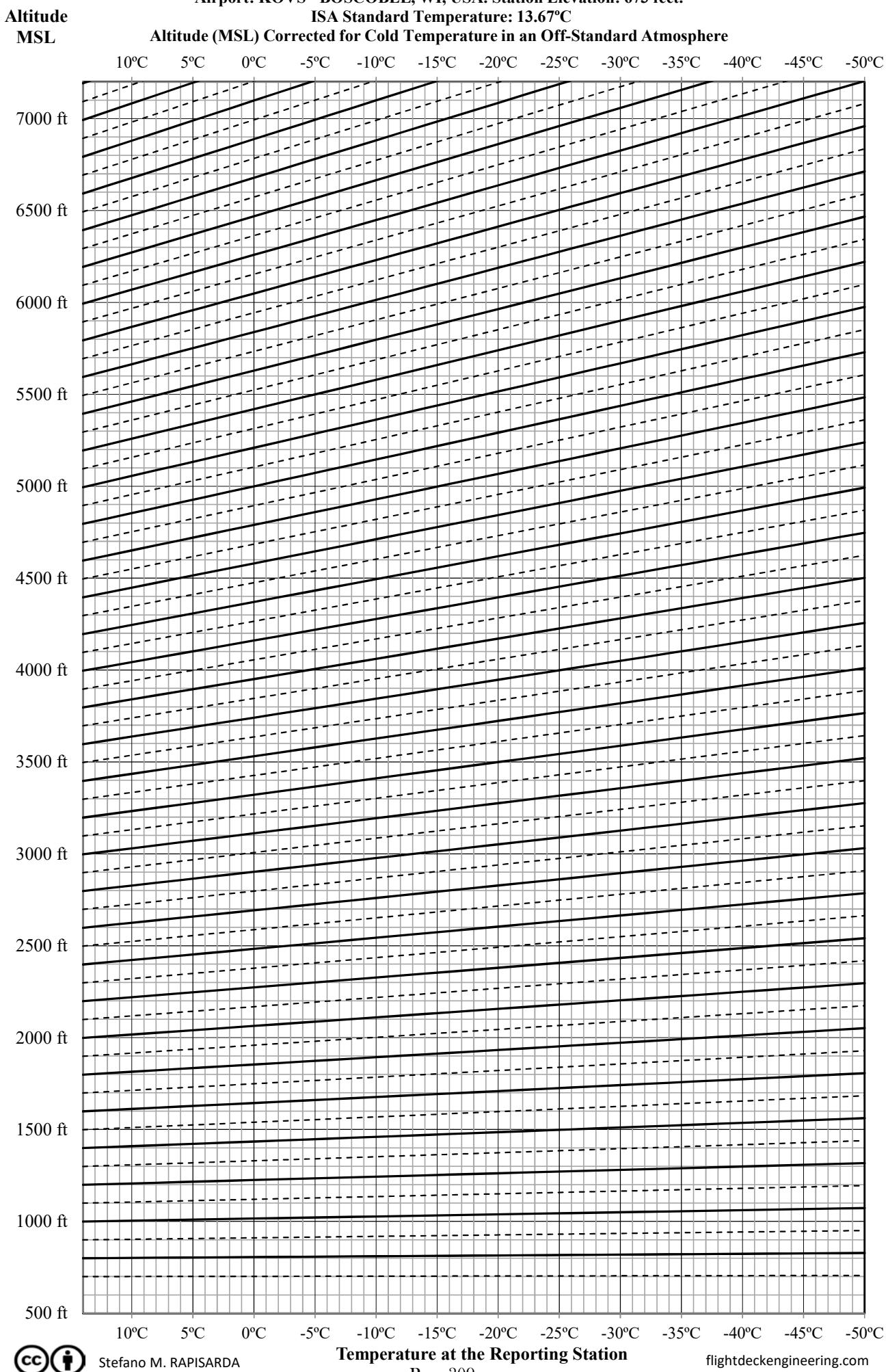
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KOVS - BOSCOBEL, WI, USA. Station Elevation: 673 feet.

ISA Standard Temperature: 13.67°C

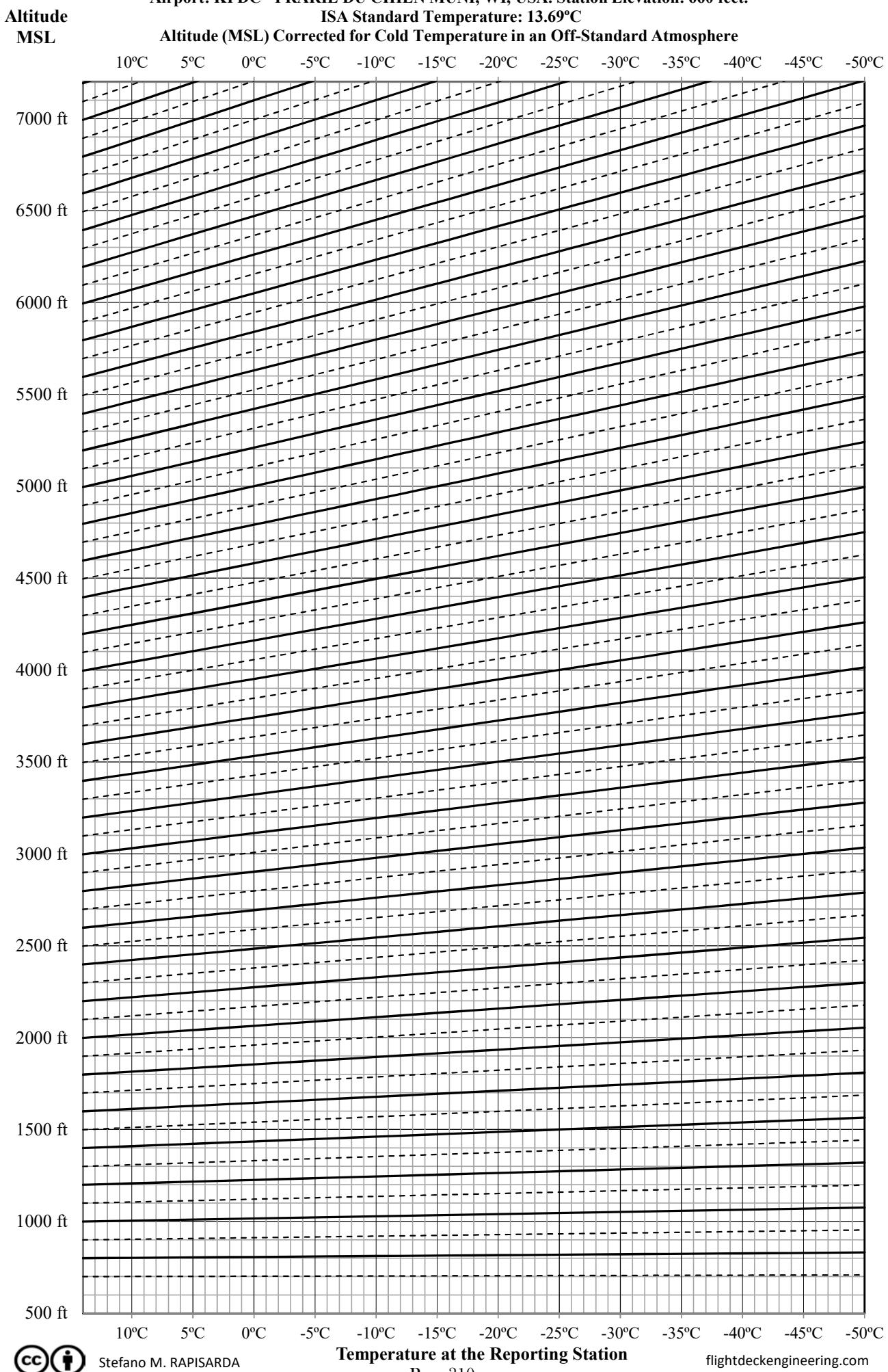
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KPDC - PRARIE DU CHIEN MUNI, WI, USA. Station Elevation: 660 feet.

ISA Standard Temperature: 13.69°C

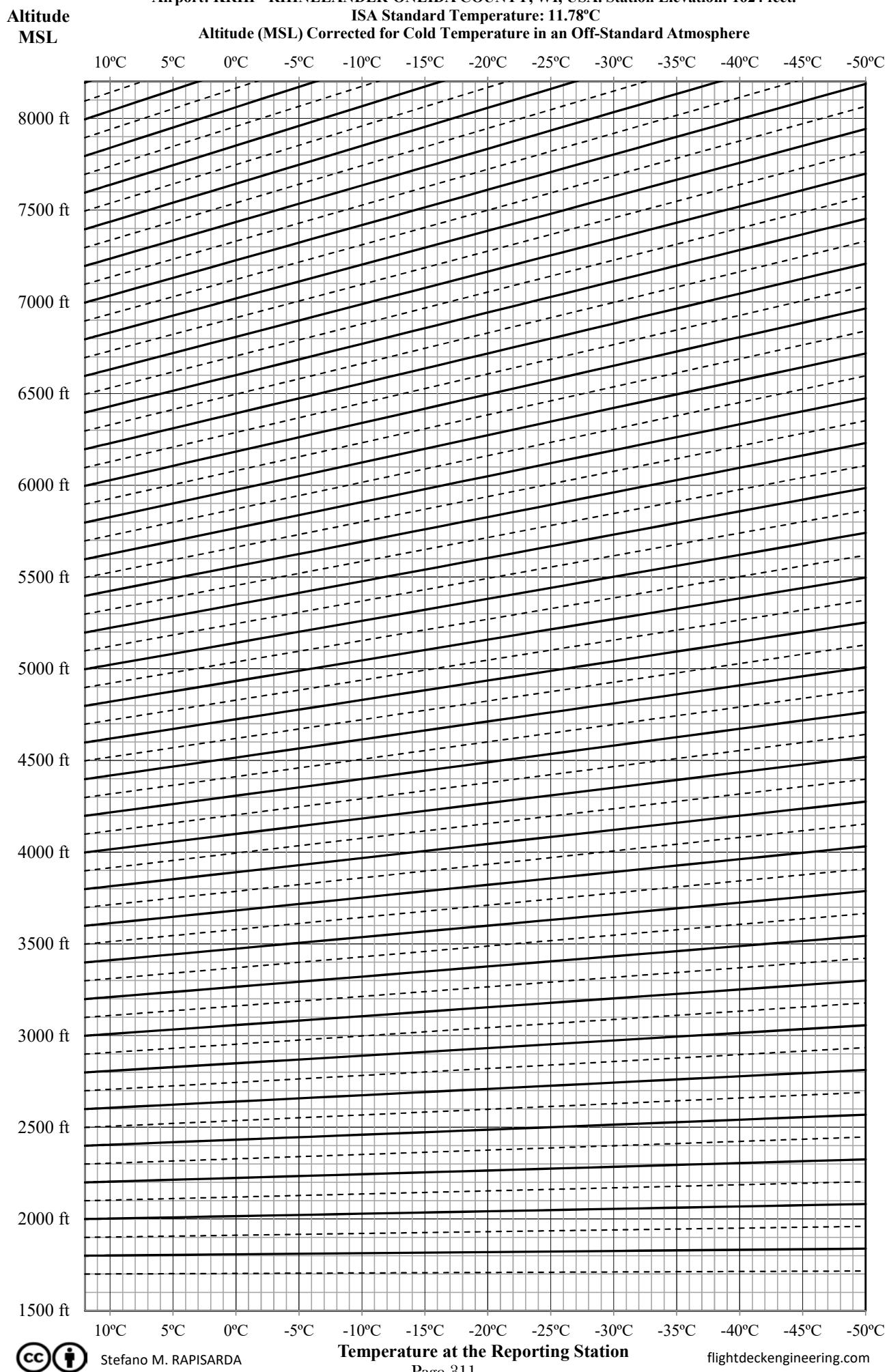
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KRHI - RHINELANDER-ONEIDA COUNTY, WI, USA. Station Elevation: 1624 feet.

ISA Standard Temperature: 11.78°C

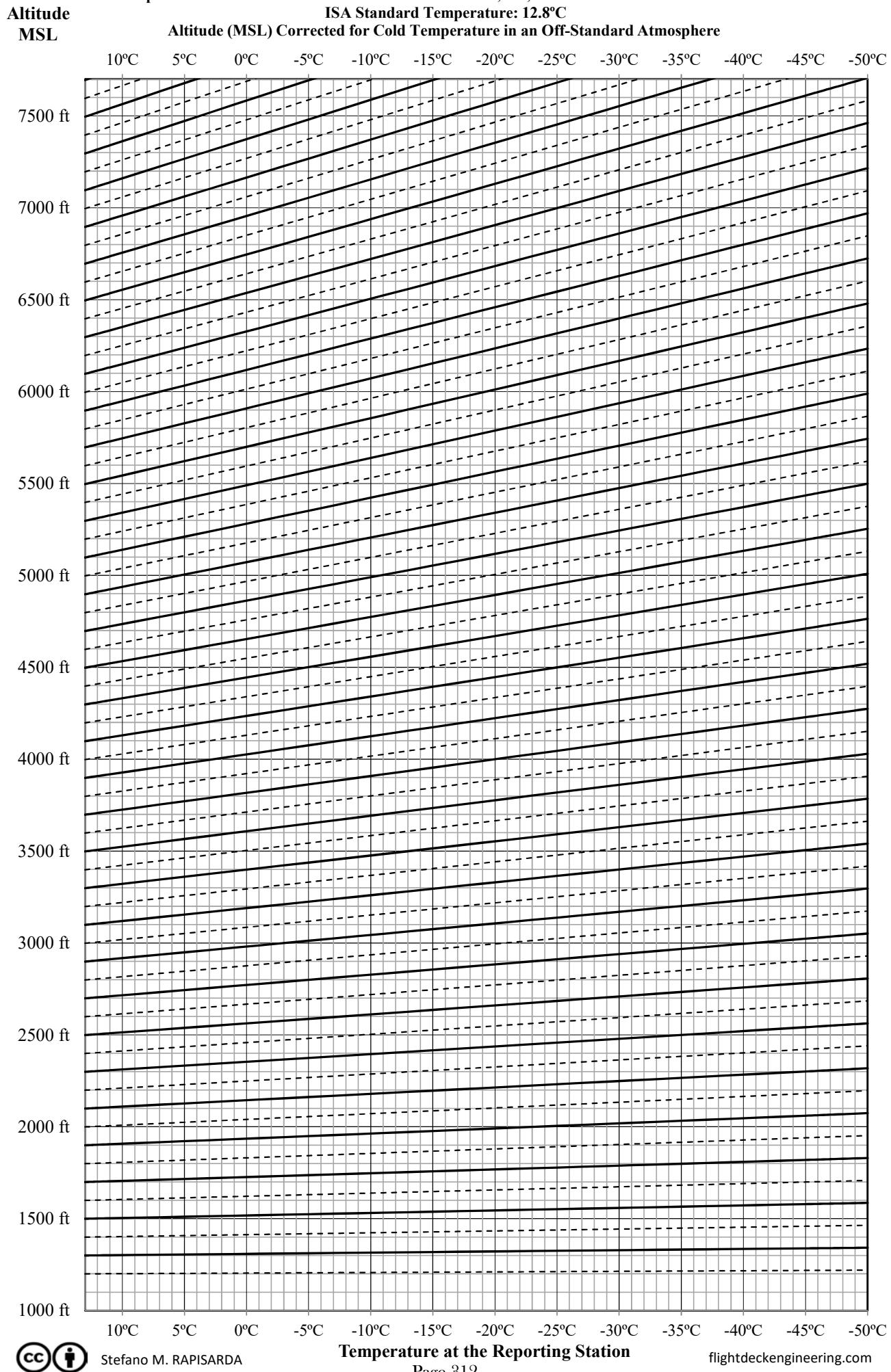
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KRPD - RICE LAKE RGNL-CARL'S FIELD, WI, USA. Station Elevation: 1109 feet.

ISA Standard Temperature: 12.8°C

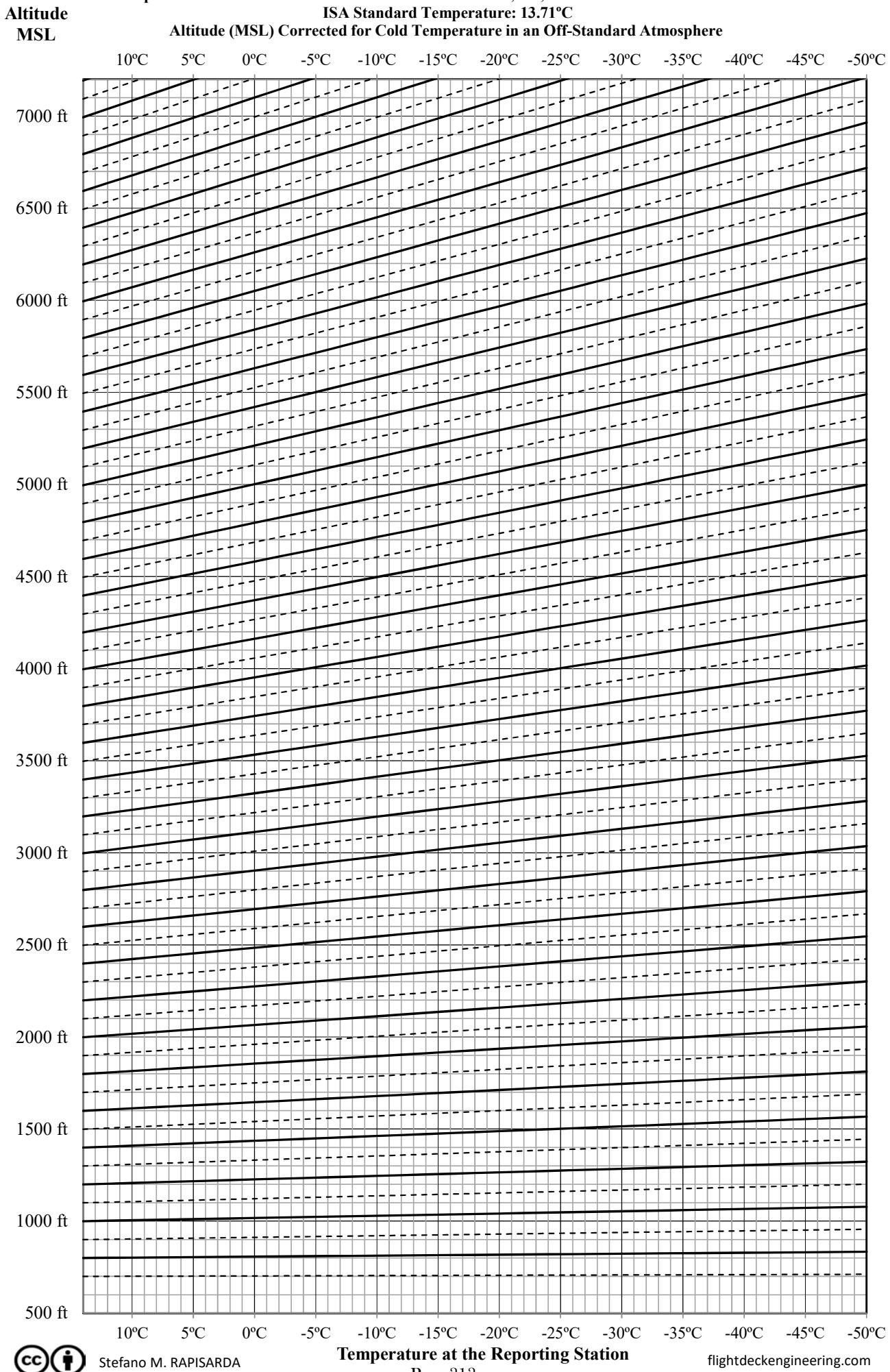
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: 4R5 - LA POINTE - MAJOR GILBERT FIELD, WI, USA. Station Elevation: 649 feet.

ISA Standard Temperature: 13.71°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere





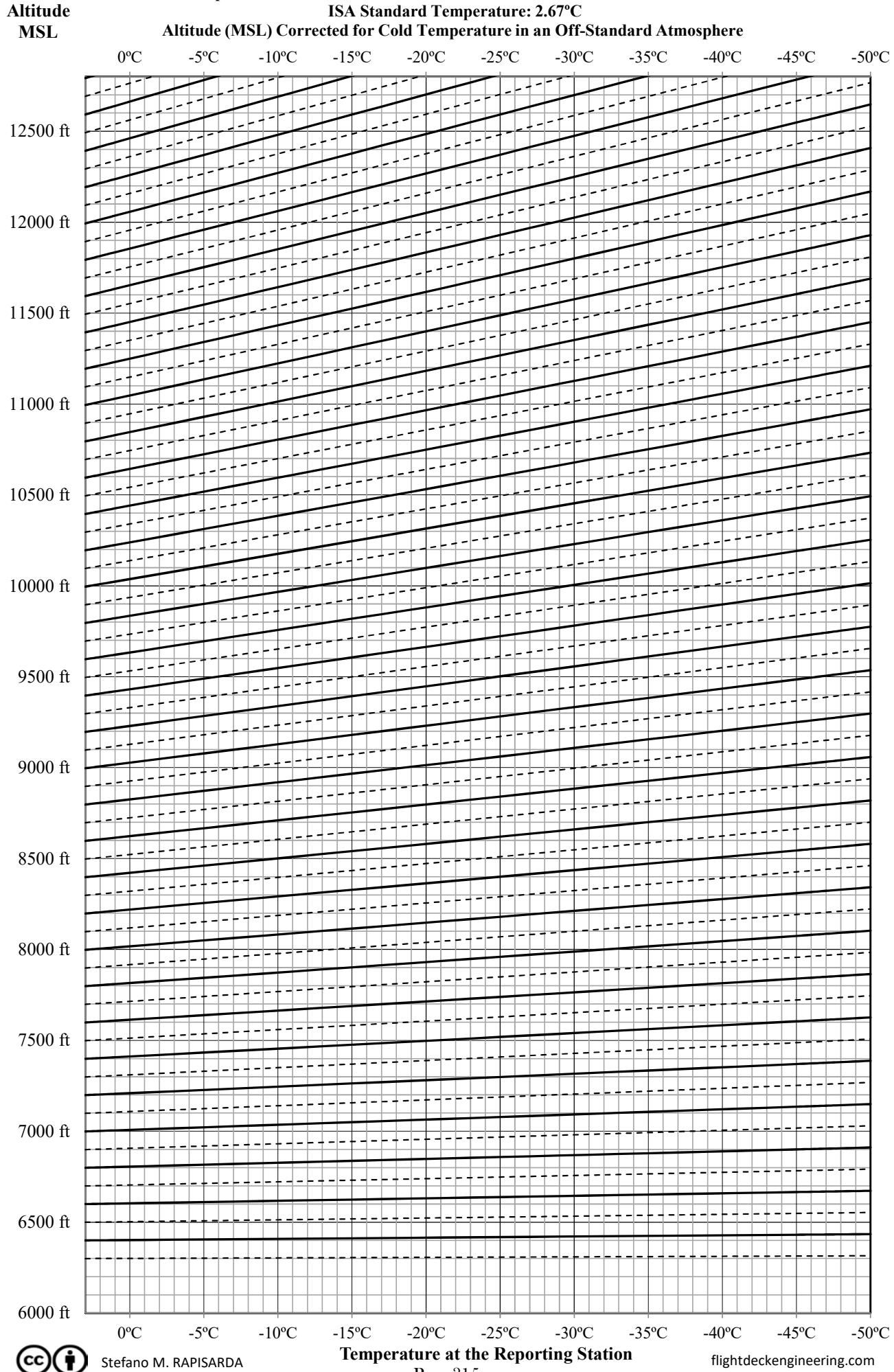
33 Wyoming Cold Temperature Restricted Airports

33.1	KAFO AFTON MUNI, WY, USA	315
33.2	KCOD CODY - YELLOWSTONE RGNL, WY, USA	316
33.3	KEMM KEMMERER MUNI, WY, USA	317
33.4	KGCC GILLETTE-CAMPBELL COUNTY, WY, USA.....	318
33.5	KGEY GREYBULL - SOUTH BIG HORN COUNTY, WY, USA.....	319
33.6	KJAC JACKSON HOLE, WY, USA	320
33.7	KLAR LARAMIE RGNL, WY, USA	321
33.8	KSHR SHERIDAN COUNTY, WY, USA	322
33.9	KWRL WORLAND MUNI, WY, USA.....	323
33.10	W43 HULETT MUNI, WY, USA	324

Airport: KAFO - AFTON MUNI, WY, USA. Station Elevation: 6221 feet.

ISA Standard Temperature: 2.67°C

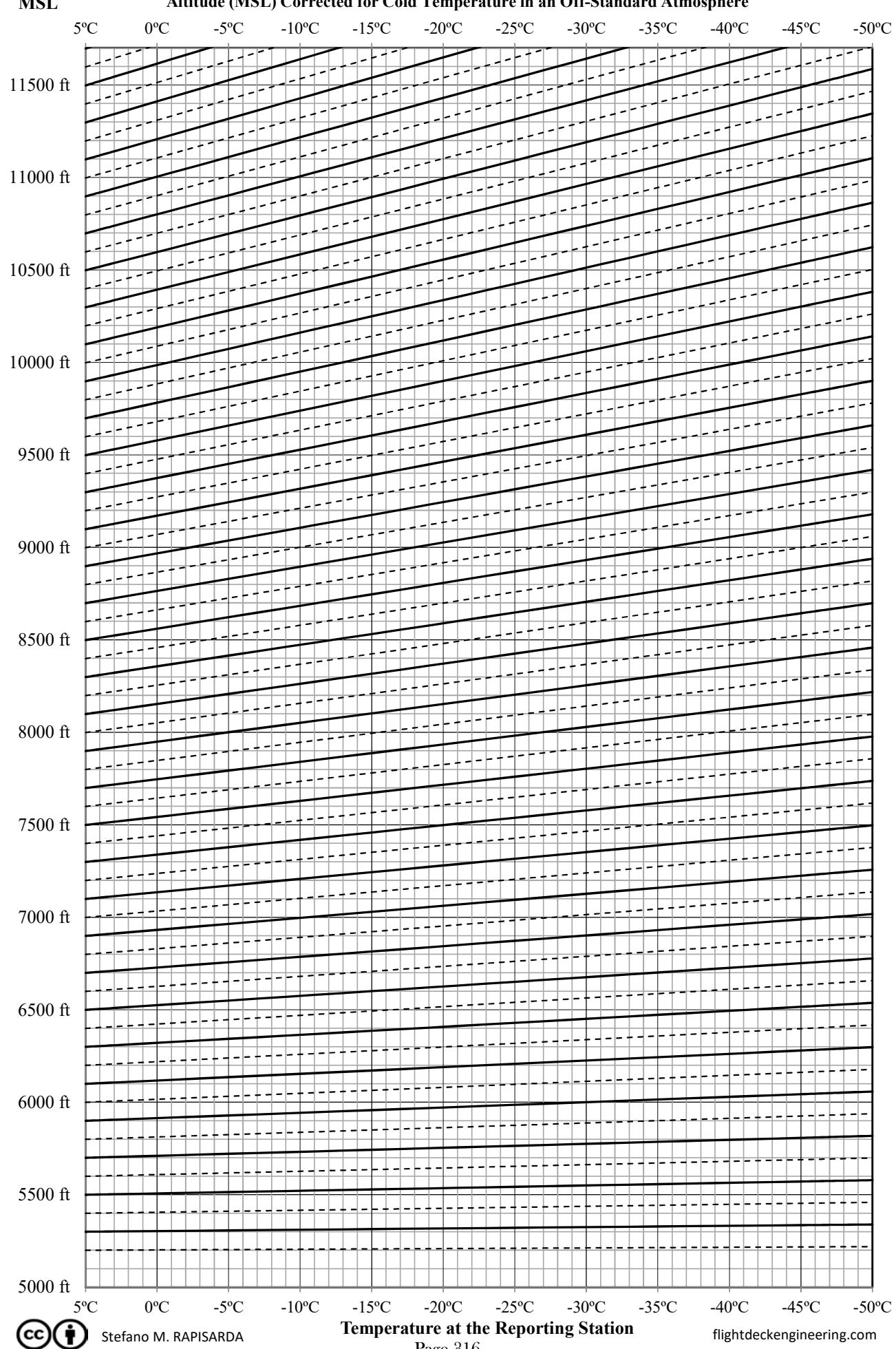
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KCOD - CODY - YELLOWSTONE RGNL, WY, USA. Station Elevation: 5102 feet.

ISA Standard Temperature: 4.89°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Stefano M. RAPISARDA

Temperature at the Reporting Station

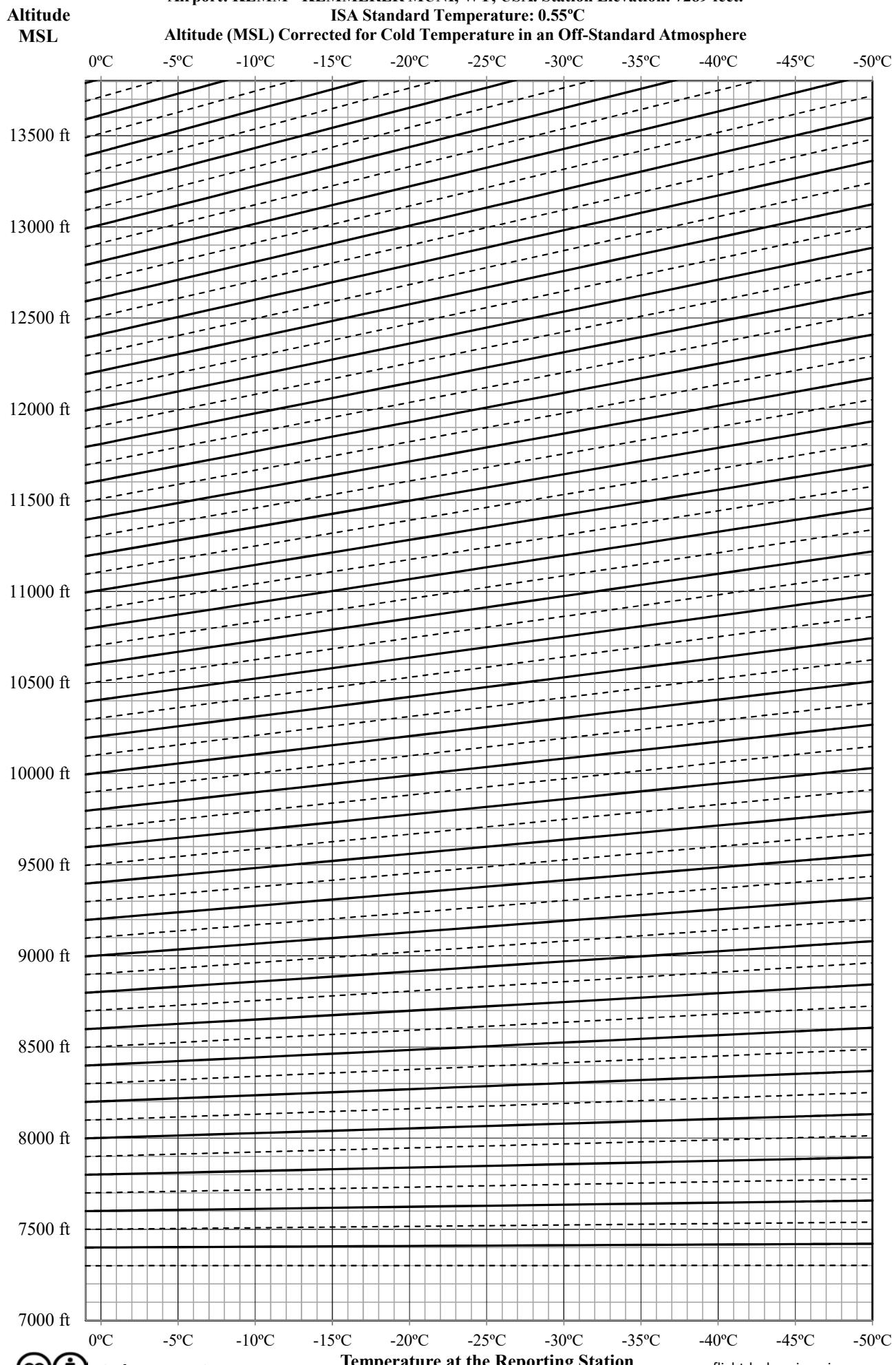
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Airport: KEMM - KEMMERER MUNI, WY, USA. Station Elevation: 7289 feet.

ISA Standard Temperature: 0.55°C

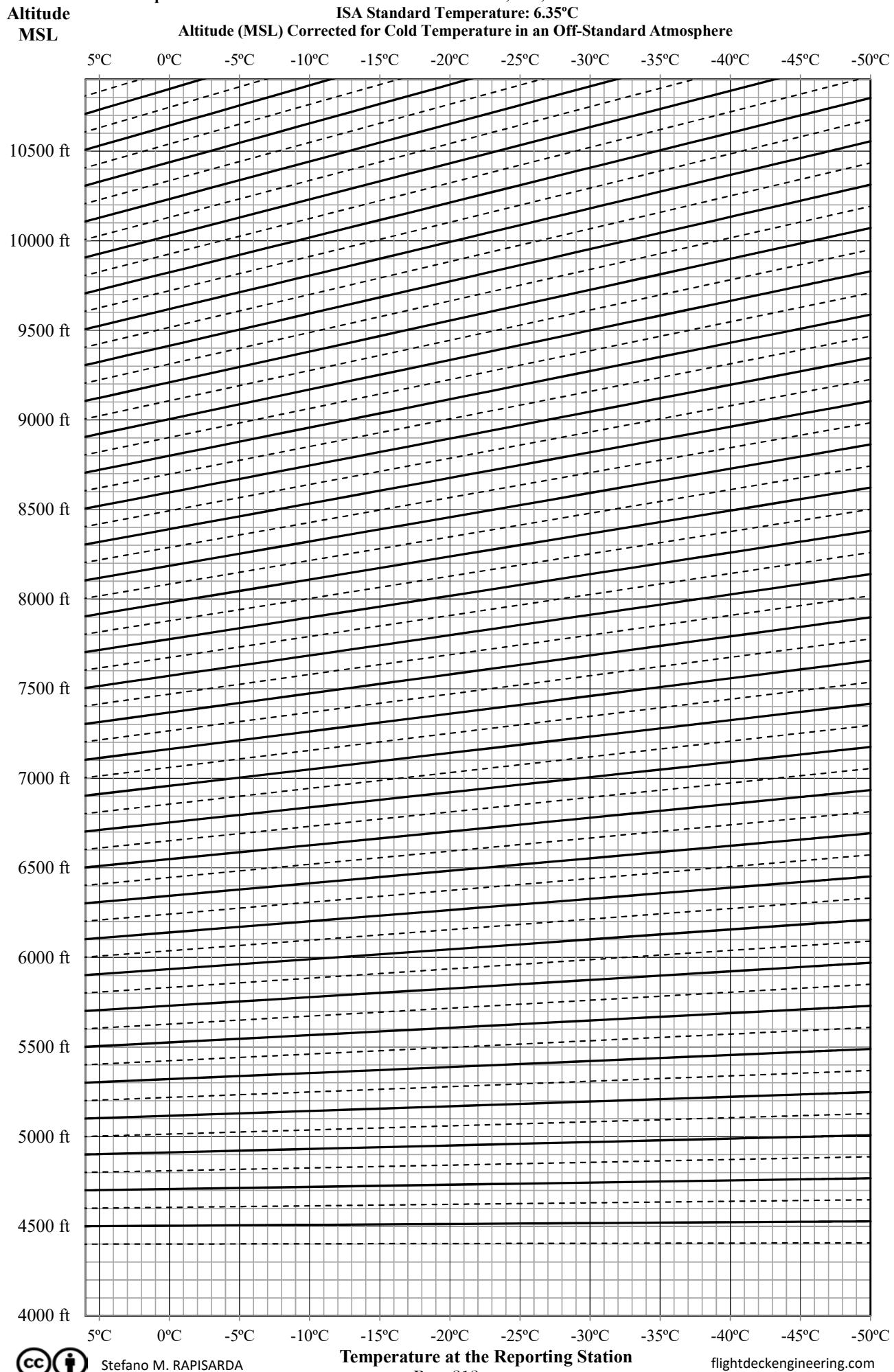
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KGCC - GILLETTE-CAMPBELL COUNTY, WY, USA. Station Elevation: 4364 feet.

ISA Standard Temperature: 6.35°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Stefano M. RAPISARDA

Temperature at the Reporting Station

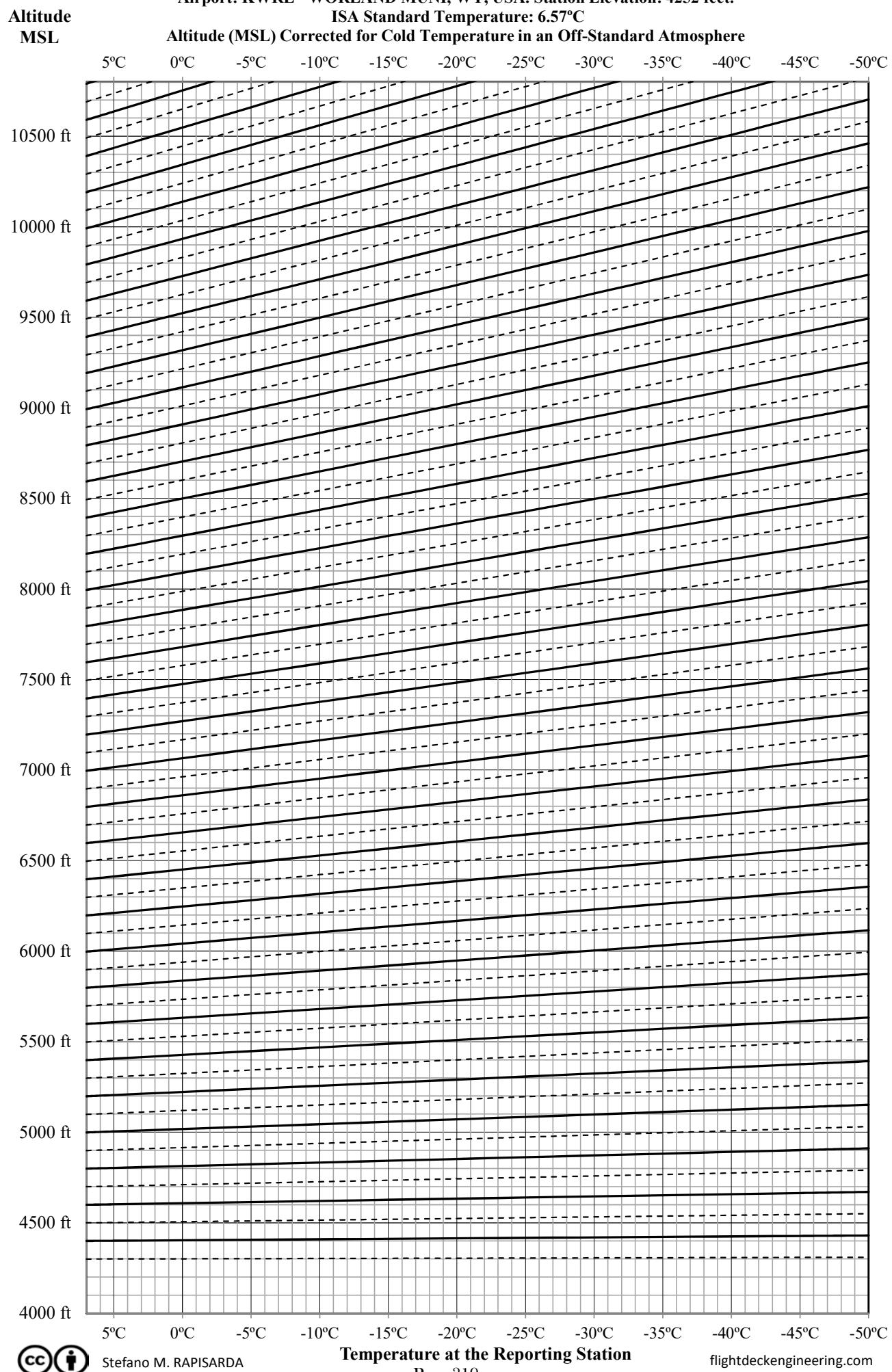
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Airport: KWRL - WORLAND MUNI, WY, USA. Station Elevation: 4252 feet.

ISA Standard Temperature: 6.57°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

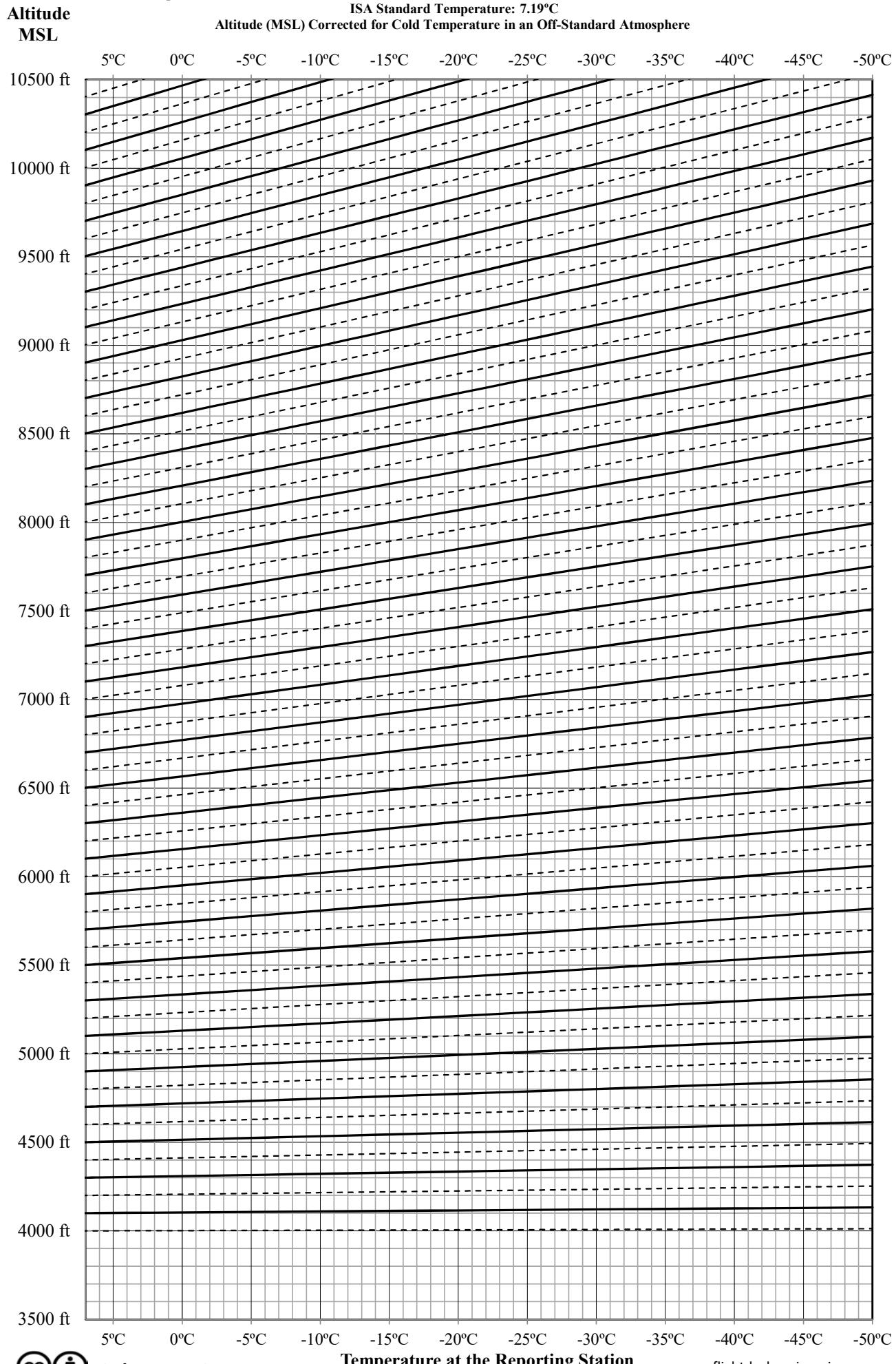


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Temperature at the Reporting Station

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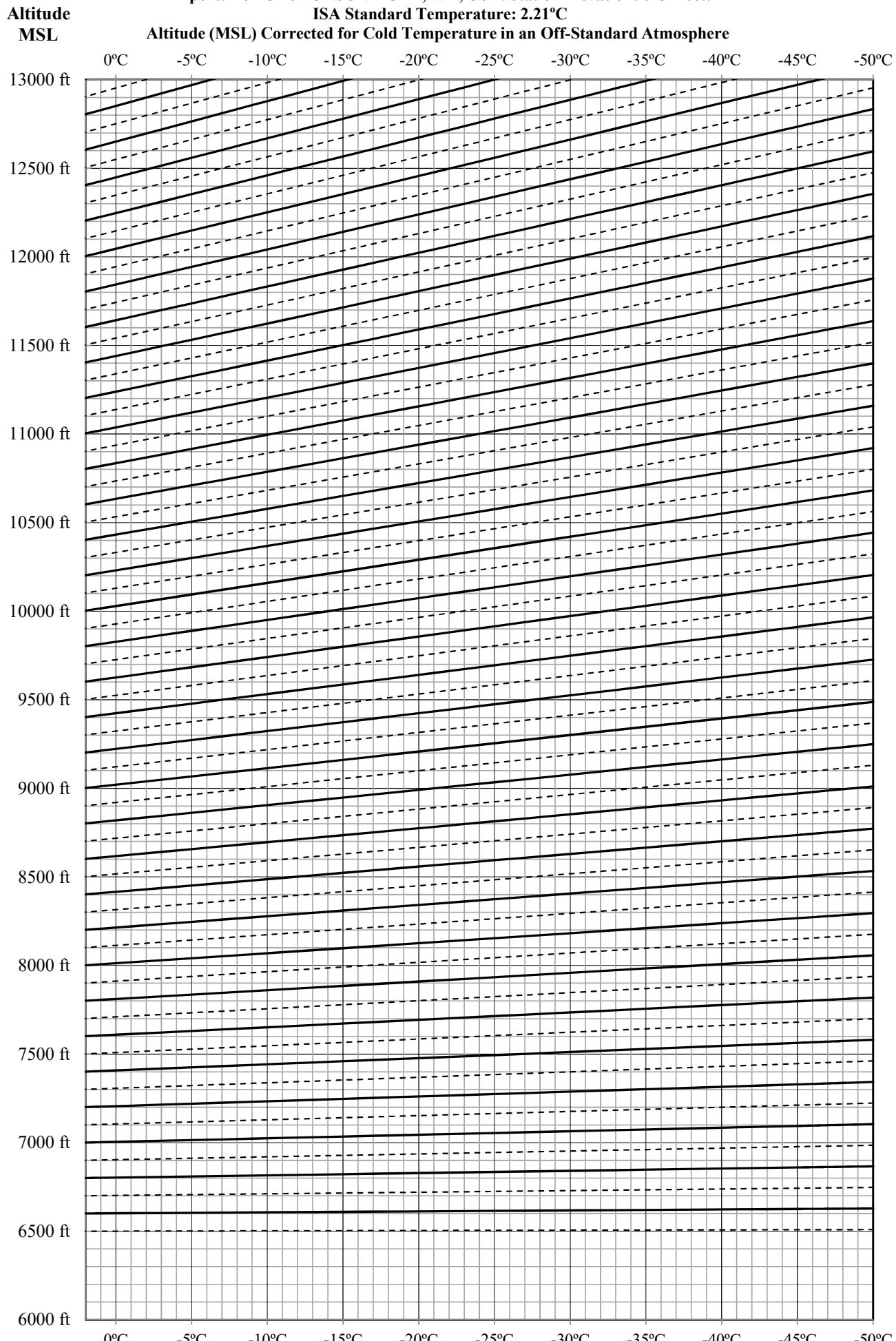
flightdeckengineering.com



Airport: KJAC - JACKSON HOLE, WY, USA. Station Elevation: 6451 feet.

ISA Standard Temperature: 2.21°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Stefano M. RAPISARDA

Temperature at the Reporting Station

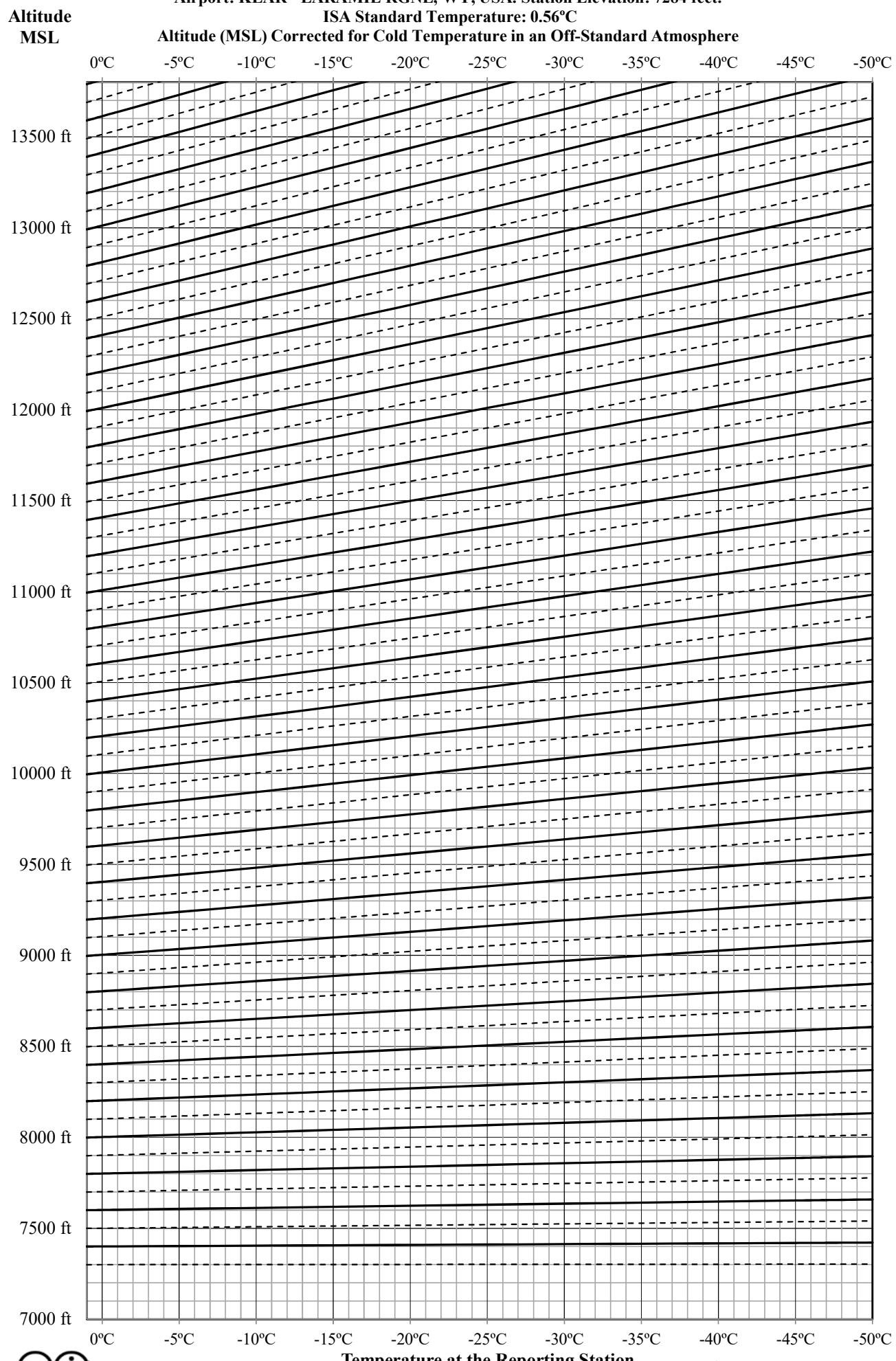
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Airport: KLAR - LARAMIE RGNL, WY, USA. Station Elevation: 7284 feet.

ISA Standard Temperature: 0.56°C

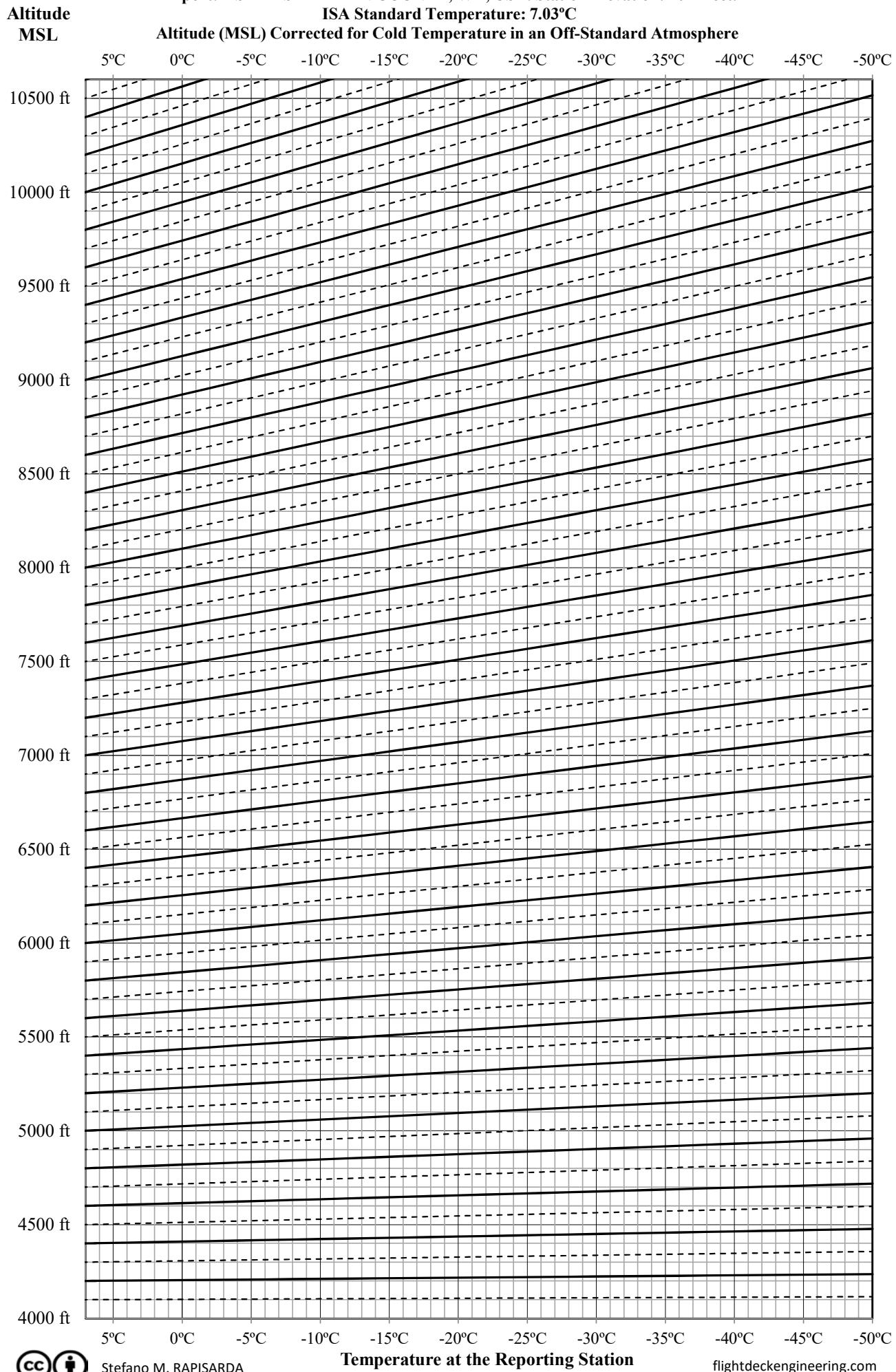
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KSHR - SHERIDAN COUNTY, WY, USA. Station Elevation: 4021 feet.

ISA Standard Temperature: 7.03°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Stefano M. RAPISARDA

Temperature at the Reporting Station

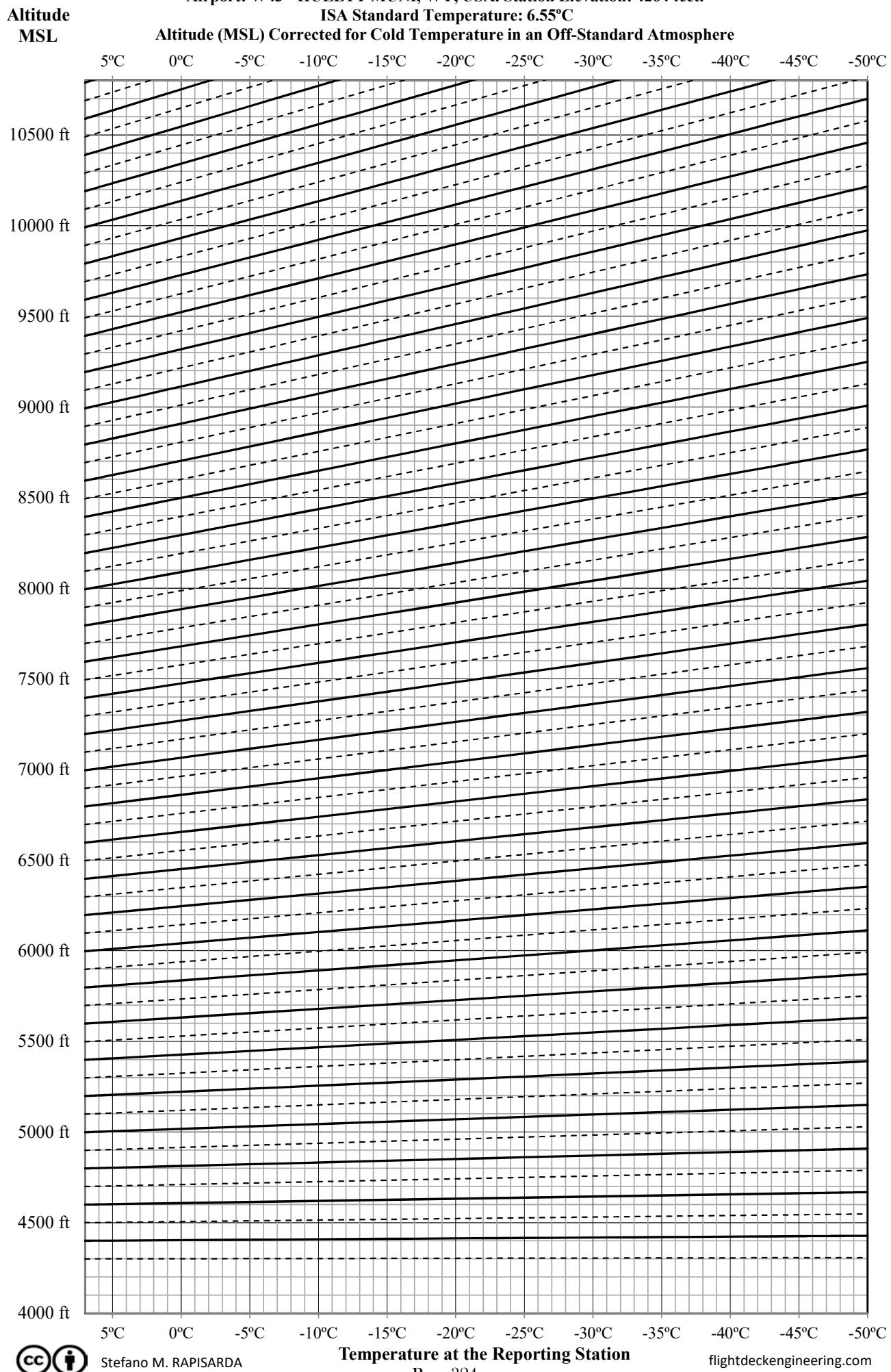
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Airport: W43 - HULETT MUNI, WY, USA. Station Elevation: 4264 feet.

ISA Standard Temperature: 6.55°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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Temperature at the Reporting Station

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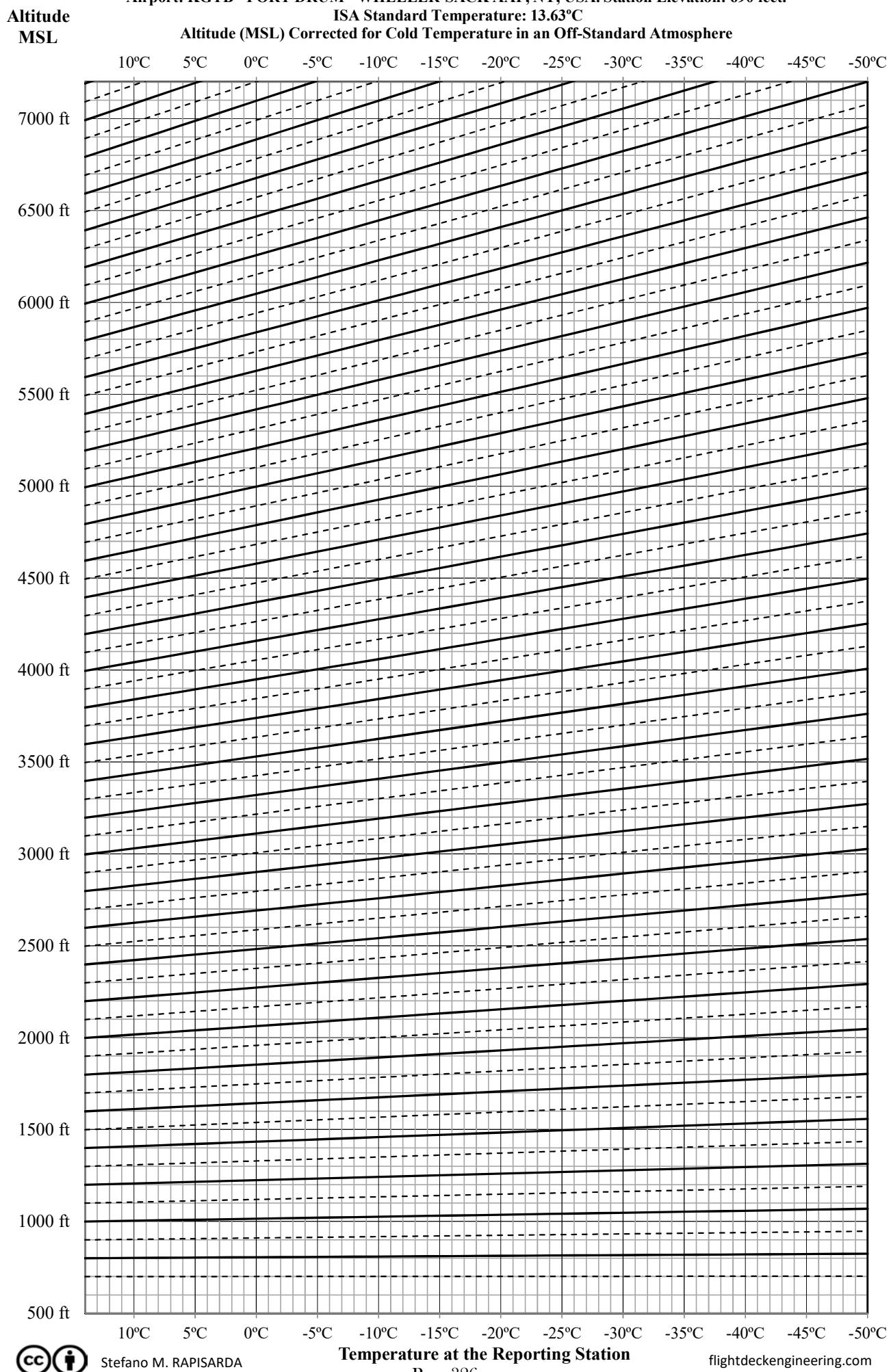
34 Military - Cold Temperature Restricted Airports

34.1	KGTB FORT DRUM - WHEELER-SACK AAF, NY, USA.....	326
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Airport: KGTB - FORT DRUM - WHEELER-SACK AAF, NY, USA. Station Elevation: 690 feet.

ISA Standard Temperature: 13.63°C

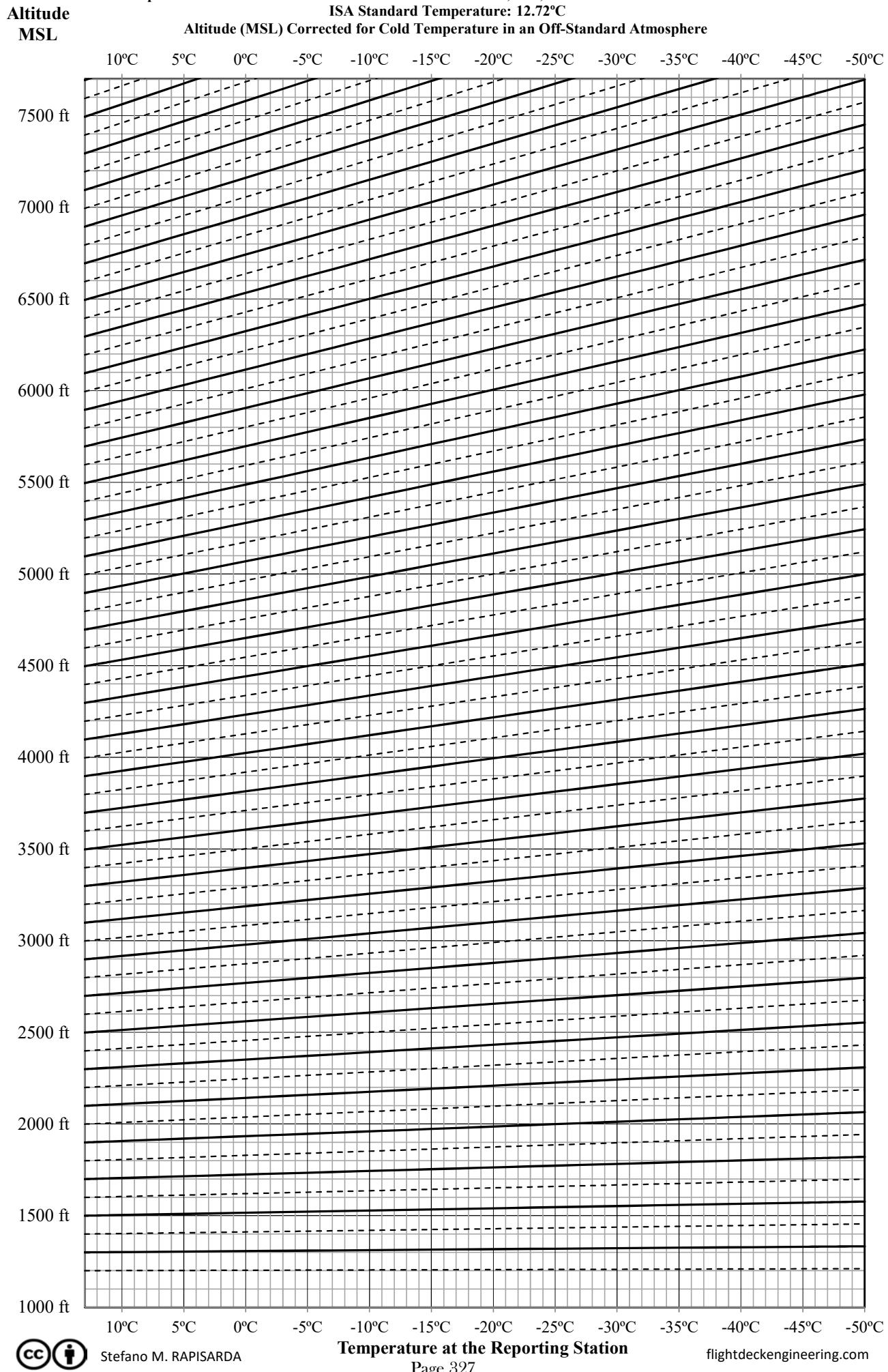
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: KRYM - CAMP RIPLEY - RAY S MILLER AAF, MN, USA. Station Elevation: 1150 feet.

ISA Standard Temperature: 12.72°C

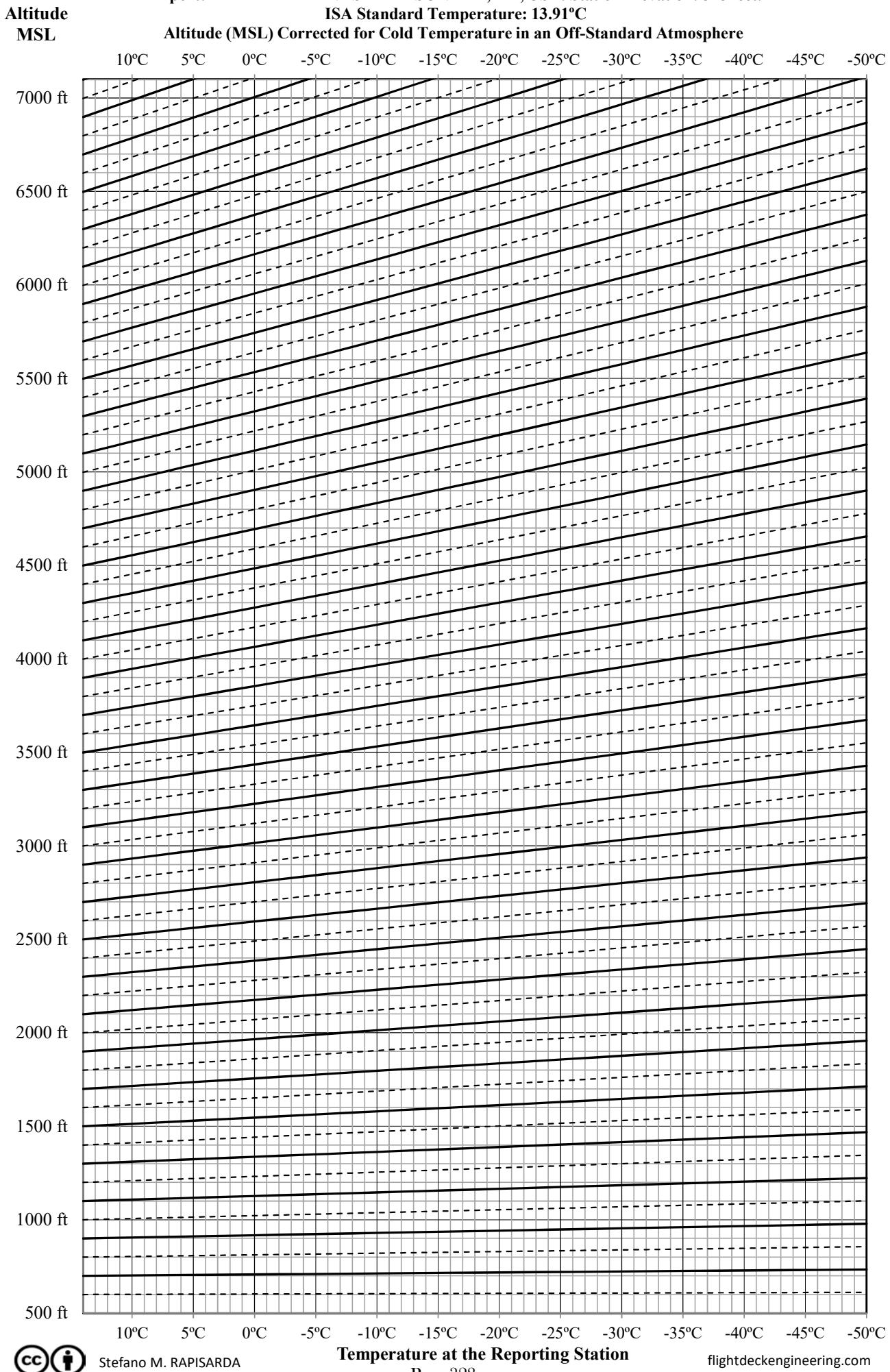
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: PAE - FAIRBANKS - EIELSON AFB, AK, USA. Station Elevation: 548 feet.

ISA Standard Temperature: 13.91°C

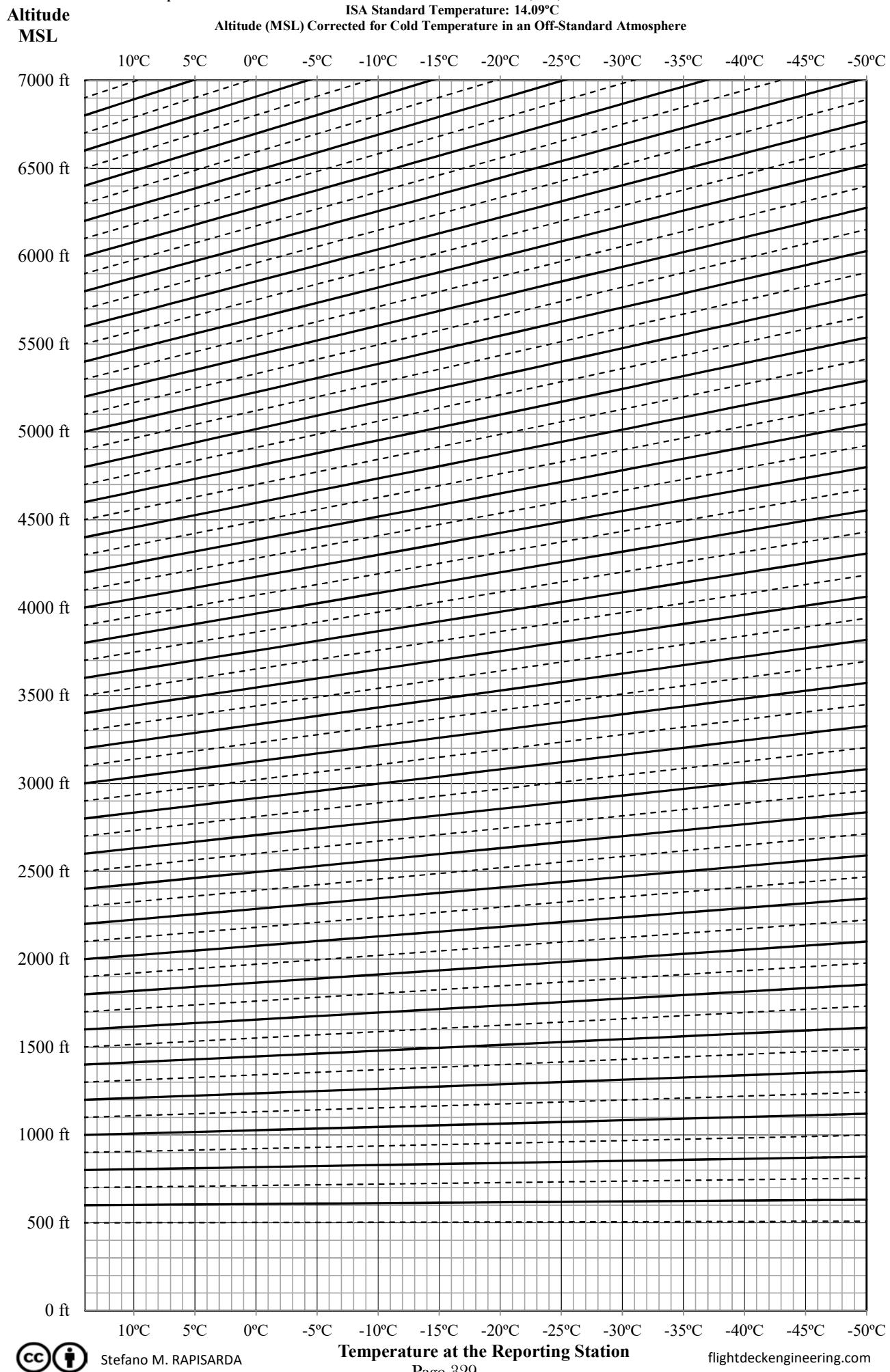
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

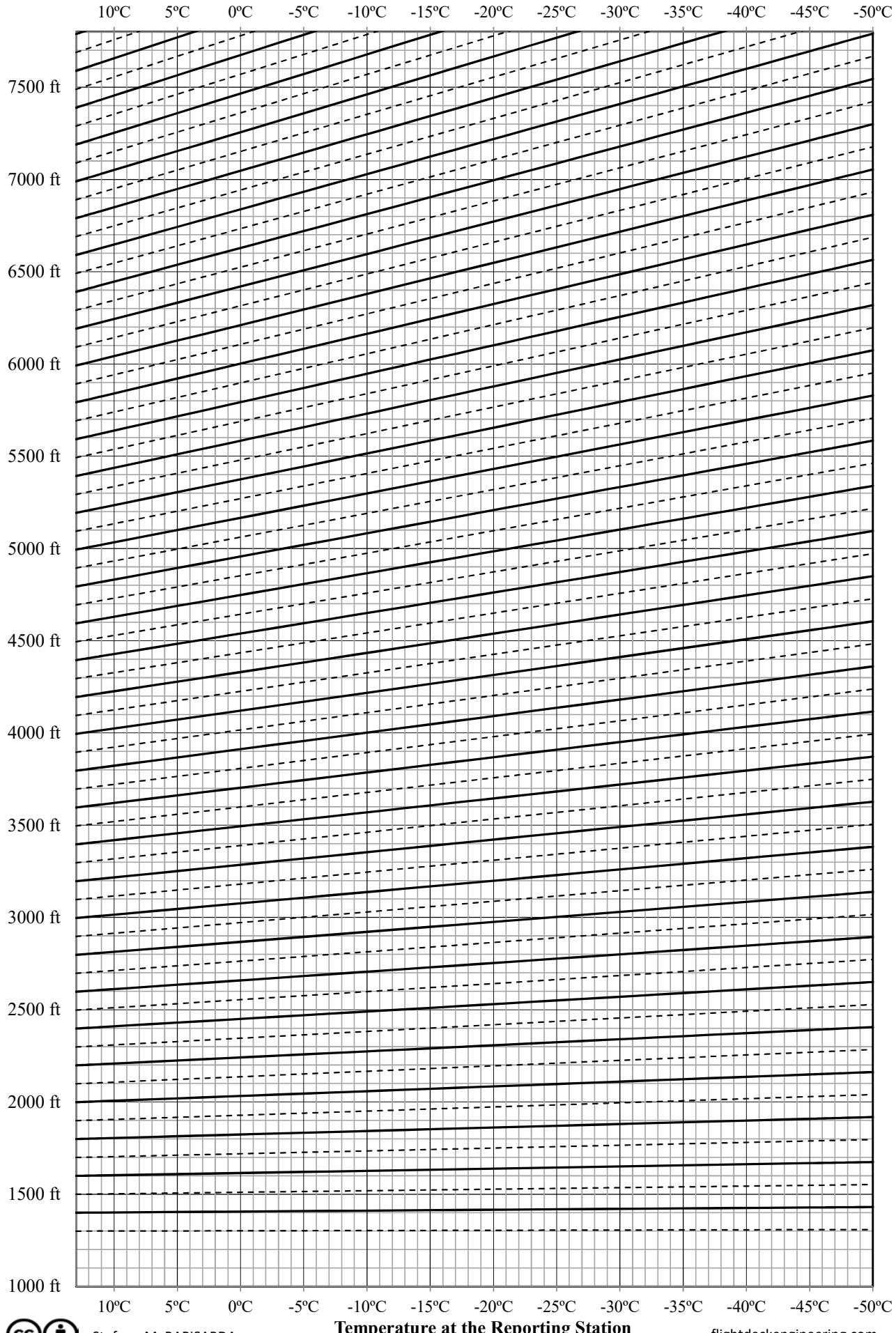


Airport: PAFB - FAIRBANKS/FT WAINWRIGHT - LADD AAF, AK, USA. Station Elevation: 460 feet.

ISA Standard Temperature: 14.09°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere

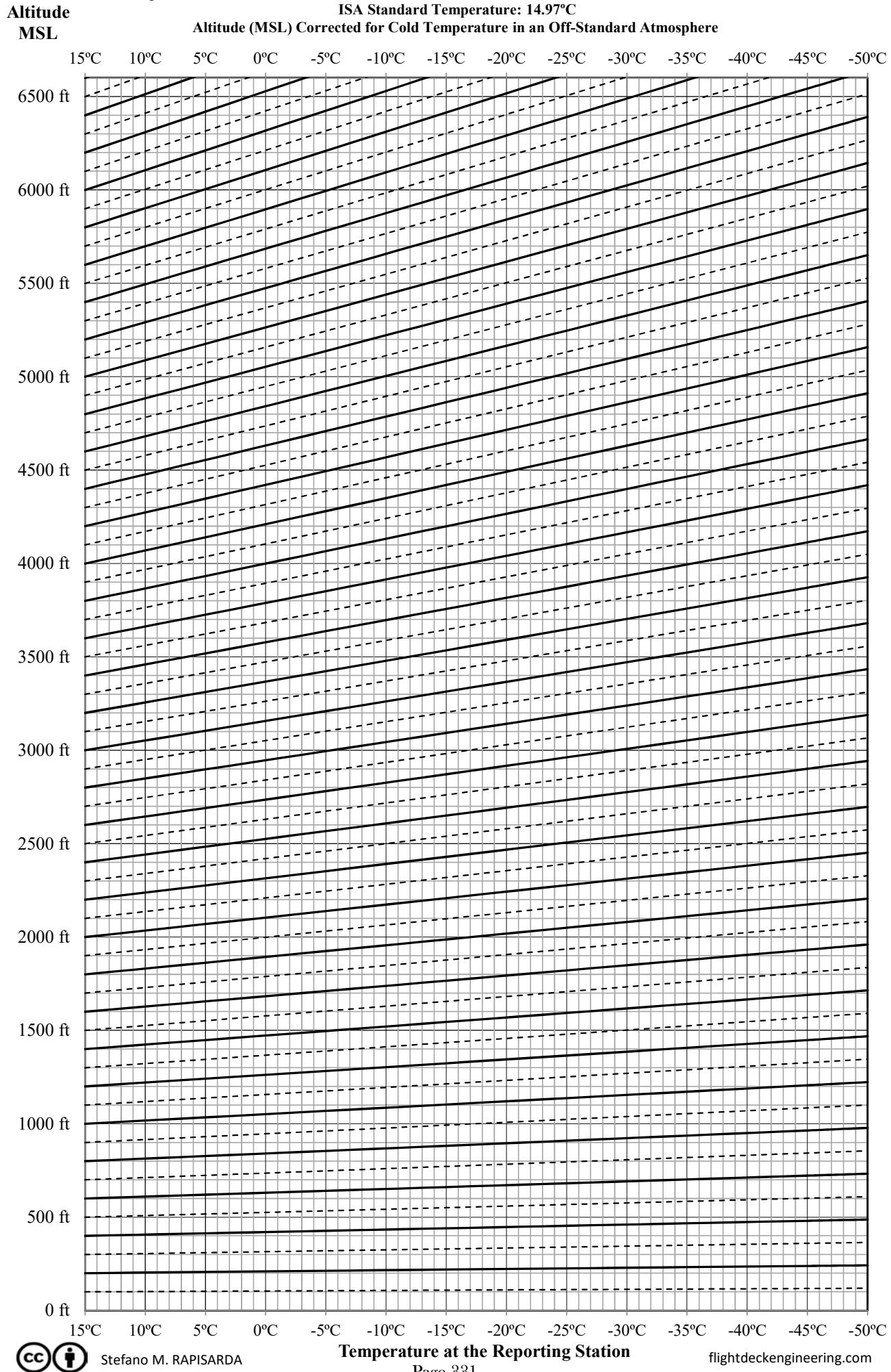


Altitude
MSL

Airport: PALU - CAPE LISBURNE - CAPE LISBURNE LRRS, AK, USA. Station Elevation: 14 feet.

ISA Standard Temperature: 14.97°C

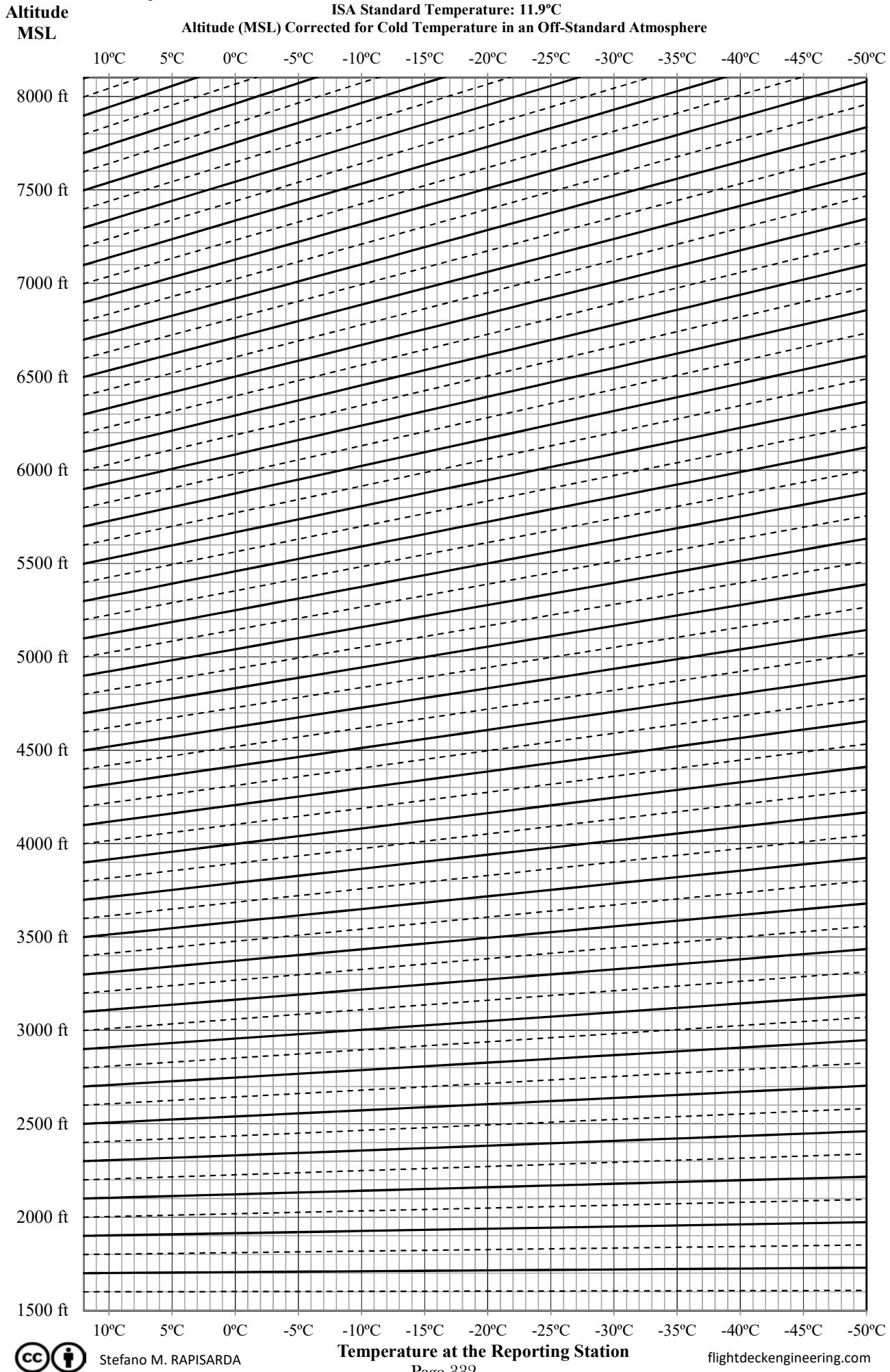
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: PASV - SPARREVOHN - SPARREVOHN LRRS, AK, USA. Station Elevation: 1565 feet.

ISA Standard Temperature: 11.9°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Stefano M. RAPISarda

Temperature at the Reporting Station

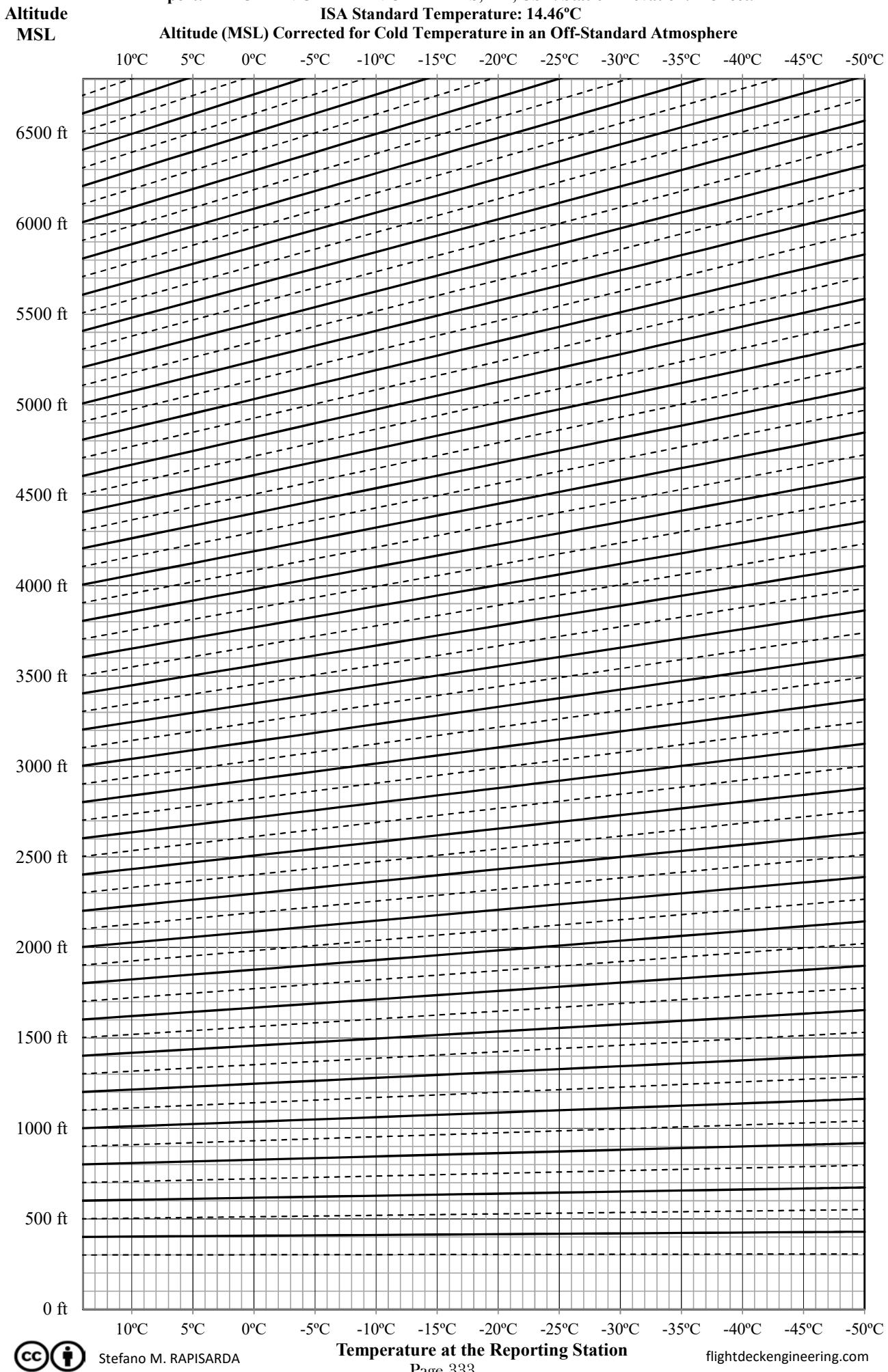
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Airport: PATC - TIN CITY - TIN CITY LRRS, AK, USA. Station Elevation: 273 feet.

ISA Standard Temperature: 14.46°C

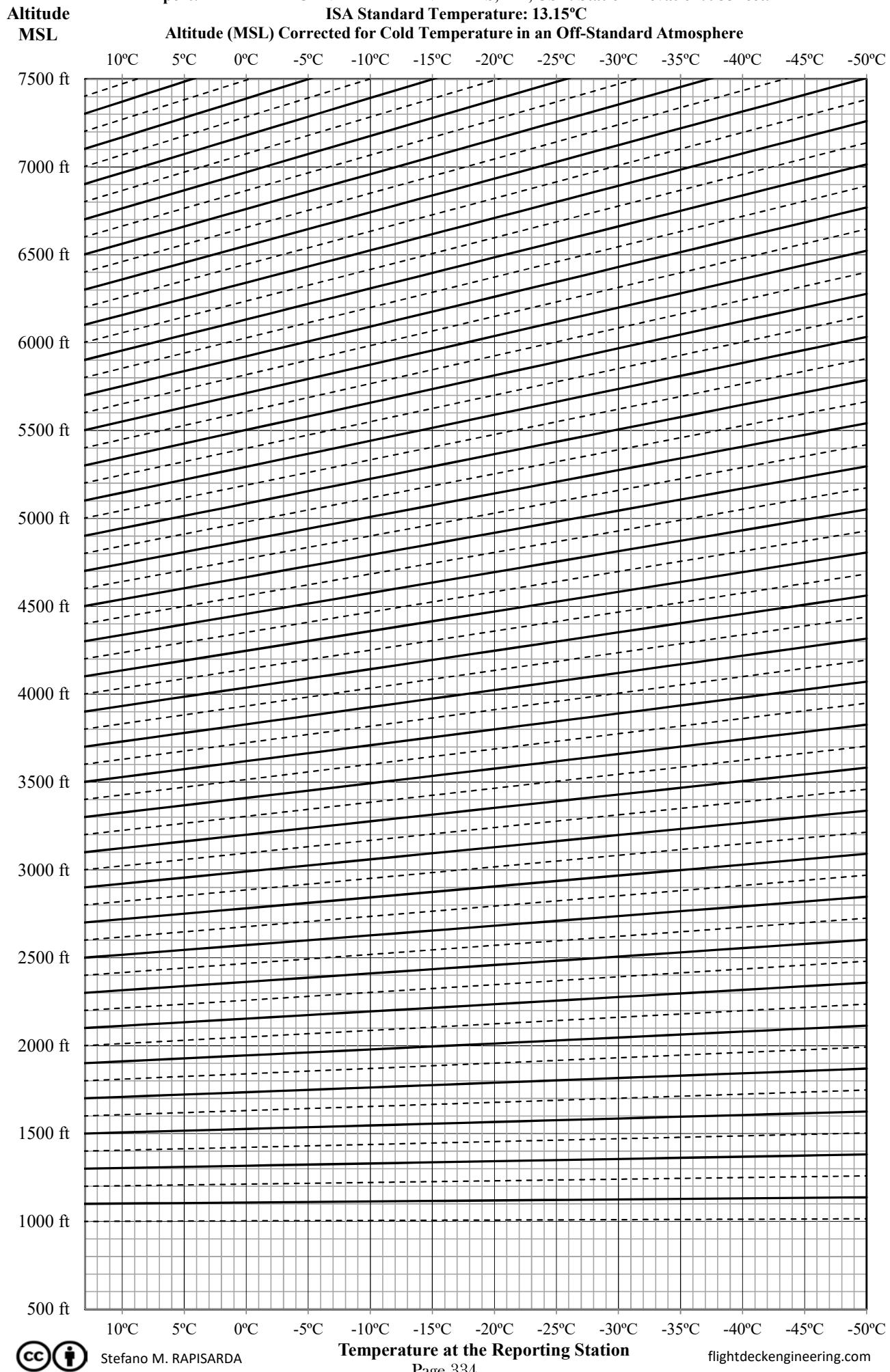
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: PATL - TAKOTNA - TATALINA LRRS, AK, USA. Station Elevation: 933 feet.

ISA Standard Temperature: 13.15°C

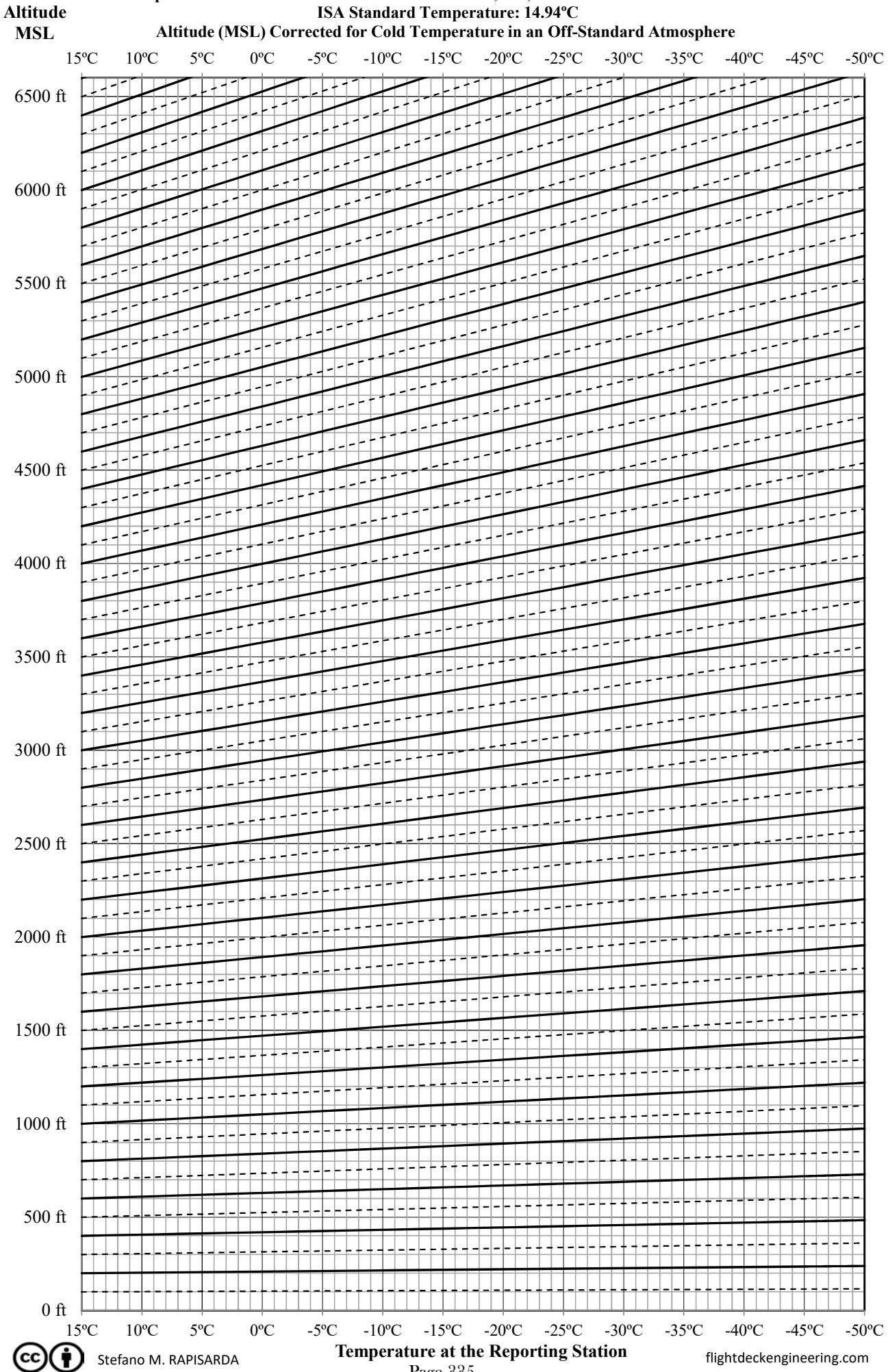
Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



Airport: PPIZ - POINT LAY - POINY LAY LRRS, AK, USA. Station Elevation: 29 feet.

ISA Standard Temperature: 14.94°C

Altitude (MSL) Corrected for Cold Temperature in an Off-Standard Atmosphere



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