

Using Ionosphere f_0F_2 and h_mF_2 Charts

1 Instructions

Click on the link “Ionospheric Data” to view ionospheric conditions at a specific site. Clicking on this link brings up the following page.

GAMBIT
Global Assimilative Model of
Bottomside Ionosphere Timeline

GAMBIT Local Nowcast

Choose a site or type coordinates below:

Location: BC840 BOULDER

Choose a characteristic:

Characteristic: foF2

Coordinates:

40.00 N (-90..90)
254.70 E (0..360)

Use Current Date and Time

Date: mm/dd/yyyy

Submit

LL721 LUALUALEI

hmf2, km

Universal Time, hours (20-Dec-2020..22-Dec-2020)

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Requires acknowledgement of LL721 data provider

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If shared or published, specific data provider must be credited, see [Acknowledgement List](#).

INTERNATIONAL IONOSPHERE
WSPV
Autoscaling Map IRTAM
LDI
SSL
UMI SPACE SCIENCE LAB

Use the “Location:” drop-down menu to select the ionosphere vertical sounding site that you are interested in, for example Boulder, CO.

Next use the “Characteristic:” drop-down menu to select the type of chart that you want, for example critical frequency f_0F_2 .

You can then click the “Use Current Date and Time” box and click on the small calendar icon in the “Date” box to enter the time and current date.

Finally, click the blue “Submit” button. The desired information will appear as illustrated below.

GAMBIT
Global Assimilative Model of
Bottomside Ionosphere Timeline

GAMBIT SITUATION ROOM

GAMBIT Local Nowcast

Choose a site or type coordinates below:

Location: BC840 BOULDER

Choose a characteristic:

Characteristic: foF2

Coordinates:

40.00 N (-90..90)
254.70 E (0..360)

Use Current Date and Time

Date: 11/25/2024

Submit

BC840 BOULDER

- IRI quiet-time climatology
- Global IRTAM weather
- Sunset
- Sunrise
- Time of IRTAM computation (TOV)

foF2, MHz

Universal Time, hours (24-Nov-2024..26-Nov-2024)

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Assimilative Map IRTAM
LBI
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The red curve is the current f_0F2 critical frequency data. The dashed green curve is the estimated critical frequency calculated by the International Reference Ionosphere (IRI) mathematical model. The vertical dashed blue line is the time at which the curves were generated in Universal Time.

A list of United States vertical sounding sites is provided in the following table.

2 United States Vertical Sounding Sites

Location	Location: Site Symbol
Lualualei, Oahu	LL721
College (Fairbanks), AK	CO764
King Salmon, AK	KS759
Port Arguello, CA	PA836
Idaho National Laboratory, ID	AC843
Boulder, CO	BC840
Cherry (White Sands), NM	CH833
Kirkland AFB, NM	KR835
Austin, TX	AU930
Alpena, MI	AL945
Hanscom, MA	HAI43
Millstone Hill, MA	MHI45
Eglin AFB, FL	EG931
Wallops IS, MD	WI937