

Subject: RE: Solar Region Summary

From: "William R Frey" <william.r.frey@noaa.gov>

Date: 2/19/2014 10:29 AM

To: <laure.lefevre@oma.be>

CC: "'Robert Steenburgh - NOAA Federal'" <robert.steenburgh@noaa.gov>, "'William Denig - NOAA Federal'" <william.denig@noaa.gov>

Hello,

The measurements reported in the daily solar region summary produced by SWPC are based on reports from US Air Force solar observatories around the world. The lat/lon is determined using white light imagery. The center of the group reported is the geometric center of the group. All the spots are taken into account to determine the center of the group but the spots are not weighted according to size.

I hope this answers your questions. Let me know if you need more information.

Bill Frey, Capt, USAF
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From: SWPC CustomerSupport - NOAA Service Account [mailto:swpc.customersupport@noaa.gov]

Sent: Thursday, February 13, 2014 10:00 AM

To: William Frey - NOAA Federal

Subject: Fwd: Solar Region Summary

Hi Bill:

Can you field this one? Pee Wee (at Holloman) may be able to clarify for her.

Rob

----- Forwarded message -----

From: Laure Lefevre <laure.lefevre@oma.be>

Date: Tue, Feb 11, 2014 at 2:42 AM

Subject: Solar Region Summary

To: SWPC.CustomerSupport@noaa.gov

Cc: wdenig Denig <William.Denig@noaa.gov>

Hello,

I have a few questions regarding precision of measurements present on your website, namely:

<http://www.swpc.noaa.gov/ftpdir/forecasts/SRS/README>

Do you have documents describing the exact methods to obtain these measurements ?

In particular, are the latitude and longitude (wether Carrington or from central meridian) computed from

White light images or from magnetograms. And then
are they barycenters taking all sunspots (and their sizes ?) into account ?
Usually, these do not matter considering the precision available... but we are talking about method here.

Thanks a lot for your help,
Best regards,

Laure Lefevre
Royal Observatory of Belgium
Solar Influences Data analysis Center
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