

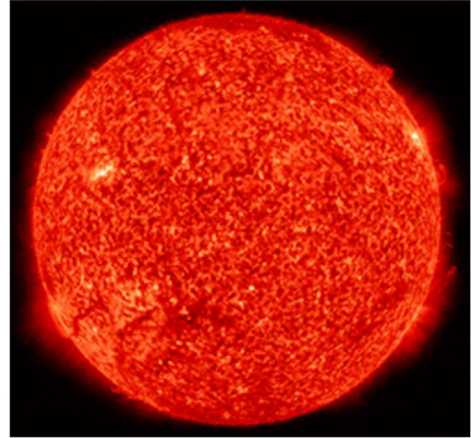
The K7RA Solar Update

Tad Cook, K7RA, Seattle, reports: New sunspots appeared on November 14 and 16, but solar activity was lower, and geomagnetic activity was lower as well.

Average daily sunspot numbers declined from 36.4 last week to 30.9 in the November 11 - 17 reporting week. Solar flux averages were off as well, dipping to to 80.8 this week compared to 89.1 last week.

Average daily planetary A index declined from 18 to 7, and average middle latitude numbers went from 11.7 to 4.9. Middle latitude A index daily average went all the way down to zero on November 13.

We see no high numbers in the solar flux prediction, which has 78 on November 18 - 20; 80 on November 21 - 24; 83 on November 25; 85 on November 26 - 27; 83 on November 28 - 29; 85 on November 30 - December 2; 82 on December 3 - 11; 79, 80, and 79 on December 12 - 14; 78, 77, 79, and 81 on December 15 - 18; 83 on December 19 - 21, and 85 on December 22 - 24.



Predicted planetary A index is a quiet 5 on November 18 - 20; then 12 and 8 on November 21 - 22; 5 on November 23 - 27; 10, 10, and 8 on November 28 - 30; 5 on December 1 - 12; 12 on December 13 - 14, and back to 5 on December 15 - 24.

Sunspot numbers for November 11 - 17 were 39, 39, 24, 23, 23, 35, and 33, with a mean of 30.9. The 10.7-centimeter flux was 84.5, 82.9, 81, 78.7, 79.3, 80.1, and 79.2, with a mean of 80.8. Estimated planetary A indices were 4, 4, 3, 4, 9, 13, and 12, with a mean of 7. Middle latitude A index was 3, 3, 0, 2, 6, 11, and 9, with a mean of 4.9.

A comprehensive K7RA Solar Update is posted Fridays on the ARRL website. For more information concerning radio propagation, [visit](#) the ARRL Technical Information Service, [read](#) "What the Numbers Mean...", and [check out](#) the Propagation Page of Carl Luetzelschwab, K9LA.

A propagation bulletin [archive](#) is available. For customizable propagation charts, visit the [VOACAP Online for Ham Radio](#) website.

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