

NNNN0359

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KMSC

HAUS BOU 160400

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 842A ISSUED 0400Z 16 DEC 1970

OCCASIONAL CLASS-C FLARES ARE ANTICIPATED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A RELATIVELY LOW LEVEL DURING THE PAST 11 HOURS; ONLY A FEW CLASS-C FLARES HAVE BEEN REPORTED. ACCORDING TO THE MT. WILSON OBSERVATORY, A SPOT OF LEADER POLARITY MAY EXIST IN THE SOUTHERN PART OF THE FOLLOWER OF THE REGION AT N13E59, WHERE POINT BRIGHTENINGS AND A MODERATELY ACTIVE FILAMENT HAVE BEEN OBSERVED. BRIGHTENINGS ALSO HAVE OCCURRED IN THE REGION AT S05W78, BUT NO ENERGETIC EVENTS HAVE ORIGINATED AT THAT SITE. OTHER DISK REGIONS HAVE REMAINED RELATIVELY UNIMPRESSIVE. RECENT SURGE ACTIVITY SUGGESTS THAT AN ACTIVE REGION SOON MAY CROSS THE LIMB NEAR NE15. THE GEOMAGNETIC FIELD HAS BECOME QUIET DURING THE PAST 13 HOURS.

B. SPORADIC CLASS-C FLARES ARE EXPECTED DURING THE THREE-DAY FORECAST PERIOD; THE REGION PRESENTLY AT N13E59 IS EXPECTED TO DOMINATE OVERALL DISK ACTIVITY, AND THIS REGION MAY PRODUCE ONE OR TWO SMALL CLASS-M EVENTS DURING THE FORECAST PERIOD. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 DEC/0400Z ENDING 19 DEC/0400Z.

CLASS M OR GREATER 40/40/40

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 15/1700Z AND 15/2000Z WERE 159 AND 153 RESPECTIVELY.

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HAUS BOU 161700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 842B ISSUED 1700Z 16 DEC 1970

CLASS C FLARES ONLY ARE EXPECTED DURING THE NEXT 11 HOURS.

A. NO M FLARES HAVE BEEN REPORTED SINCE THE LAST MESSAGE. THE SUBFLARE ACTIVITY THAT HAS BEEN OBSERVED WAS WELL SCATTERED OVER THE DISK. NO MAJOR DEVELOPMENTAL CHANGES ARE EVIDENT WITHIN THE 8 GROUPS VISIBLE. NEW FEATURES INCLUDE A REGION FORMING NEAR S13W43 AND A SMALL PATCH OF BRIGHT PLAGE NEAR S15 WITH MINOR SURGES. THE GEOMAGNETIC INDEX CURRENTLY VERY QUIET, REPRESENTING AN UNUSUALLY RAPID RETURN TO PRESTORM K-INDICES.

B. THE CURRENT LEVEL OF SUBFLARE ACTIVITY IS EXPECTED TO PREVAIL DURING THE 3-DAY FORECAST PERIOD. GEOMAGNETIC CONDITIONS SHOULD BE CHARACTERIZED ON THE AVERAGE BY A-INDICES NEAR 10 AT MAGNETIC LATITUDE ABOUT 40 DEGREES, I.E. FOR STATIONS LIKE FREDERICKSBURG OR BOULDER.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 16 DEC/1700Z ENDING 19 DEC/1700Z.

CLASS M OR GREATER 40/40/40

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUX FOR 16/1400Z WAS 154. PREDICTED 10.7 CM FLUX FOR 17-19 DEC IS 155/153/157.

E. MAGNETIC A-FREDERICKSBURG FOR 15 DEC WAS 13. FOR 16 DEC ABOUT 03. PREDICTED AP FOR 17-19 DEC, 05/14/10.

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