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HAUS BOU 150410

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 105A ISSUED 0400Z 15 APRIL 1971

CLASS C FLARES ARE EXPECTED DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS INCREASED SLIGHTLY DURING THE PAST 11 HOURS, BUT ONLY CLASS C FLARES HAVE BEEN OBSERVED. DEVELOPMENT HAS CONTINUED IN THE REGION AT S04W16, CAUSING THE TRAILING PART OF THIS GROUP TO MOVE CLOSER TO THE LEADING SPOT OF THE ACTIVE CENTER AT S05W07. A MODERATELY INTENSE 9.1 CM NOISE SOURCE IS LOCATED IN THE REGION AT N21E51, WHERE SPECTROGRAPHIC ANALYSIS HAS INDICATED MAGNETIC FIELDS OF TRAILING POLARITY ONLY. OTHER REGIONS HAVE SHOWN ONLY SLIGHT CHANGES. THE GEOMAGNETIC STORM THAT BEGAN AT 14/1244Z HAS INTENSIFIED. THE K-INDEX AT BOULDER FOR 15/0000-0300Z WAS 7, REPRESENTING A DEFLECTION OF ABOUT 250 GAMMAS ON THE D-COMPONENT OF THE GEOMAGNETIC FIELD.

B. SOLAR ACTIVITY IS EXPECTED TO INCREASE SLIGHTLY DURING THE 72 HOUR FORECAST PERIOD. INTERACTION BETWEEN THE REGIONS AT S05W07 AND S04W16 EVENTUALLY MAY LEAD TO THE PRODUCTION OF ENERGETIC FLARES IF DEVELOPMENT CONTINUES. THE GEOMAGNETIC FIELD PROBABLY WILL REMAIN DISTURBED FOR AT LEAST 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 15 APR/0400Z ENDING 18 APR/0400Z.

CLASS M OR GREATER 35/40/45

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 14/1700Z AND 14/2000Z WERE 140 AND 142 RESPECTIVELY.

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HAUS BOU 151700

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 105B ISSUED 1700Z 15 APRIL 1971

CLASS C EVENTS EXPECTED.

A. NUMEROUS CLASS C FLARES HAVE OCCURRED IN THE PAST 13 HOURS. NO SIGNIFICANT OPTICAL DEVELOPMENT HAS BEEN REPORTED IN THE CURRENT DISK ACTIVITY CENTERS THE PAIR OF REGION AT S05W14 AND S04W23 STILL HAVE NOMINAL BIPOLAR STRUCTURES BUT NOW APPEAR TO HAVE PASSED MAXIMUM DEVELOPMENT. BECAUSE OF THEIR CLOSE PROXIMITY, THE POSSIBILITY REMAINS THAT THEY MAY PRODUCE EVENRGETIC ACTIVITY SOMETIME IN THE NEXT FEW DAYS. A NOISE STORM AT DEKAMETRIC FREQUENCIES HAS BEEN IN PROGRESS SINCE BEFORE 14/1700Z. CORONAL TEMPERATURES ARE SIGNIFICANTLY ENHANCED ABOVE THE REGION AT N20E45. THE GEOMAGNETIC STORM THAT BEGAN AT 14/1244Z PRODUCED A K VALUE OF SEVEN AT FREDRICKSBURG AT 15/0000Z-0300Z AND IS STILL IN PROGRESS.

B. MINOR FLARES WITH SOME SMALL CHANCE OF CLASS M EVENTS ARE THE PROSPECTS FOR THE NEXT 24 HOURS. THE GEOMAGNETIC STORM IS EXPECTED TO CONTINUE BUT AT A DECREASING DISTURBANCE LEVEL.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 15 APR/1700Z ENDING 18 APR/1700Z.

CLASS M OR GREATER 30/30/30

CLASS X 02/05/05

PROTON EVENTS 05/05/10

D. OTTAWA 10.7 CM FLUX FOR 15/1400Z WAS 144. PREDICTED 10.7 CM FLUX FOR 16-18 APR IS 145/147/150.

E. MAGNETIC A-FREDERICKSBURG FOR 14 APR WAS 22. FOR 15 ABOUT 38 PREDICTED AP FOR 16-18 APR, 26/18/15.

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