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HAUS BOU 050400Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 740A ISSUED 0400Z 05 SEPTEMBER 1970

CLASS C FLARES ARE EXPECTED AND CLASS M FLARES ARE PROBABLE DURING THE NEXT 13 HOURS.

A. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL DURING THE PAST 11 HOURS. ONLY NON ENERGETIC SUBFLARES HAVE BEEN OBSERVED. THE REGION N17E03 IS STILL THE MOST INTERESTING DISK FEATURE AND DOES CONTAIN A DELTA CONFIGURATION. THE GEOMAGNETIC FIELD IS SLIGHTLY DISTURBED.

B. THE REGION N17E03 IS EXPECTED TO PRODUCE SEVERAL LARGE AND ENERGETIC FLARES DURING THE NEXT 72 HOURS. THE REGION N19W15 MAY ALSO INCREASE IN FLARE ACTIVITY. THE GEOMAGNETIC FIELD WILL HAVE PERIODS OF DISTURBED CONDITIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 05 SEPT/0400Z ENDING 08 SEPT/0400Z

CLASS M OR GREATER 85/85/85

CLASS X 10/10/10

PROTON EVENTS 02/02/02

D. OTTAWA 10.7 CM FLUXES FOR 04/1700Z AND 04/2000Z WERE 172 AND 159 RESPECTIVELY.

SOLTERWARN

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HAUS BOU 051715Z

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 740B ISSUED 1700Z 05 SEP 1970

CLASS-C FLARES ARE EXPECTED AND CLASS-M FLARES ARE PROBABLE DURING THE NEXT 11 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A MODERATE LEVEL DURING THE PAST 13 HOURS. ONLY ONE SIGNIFICANT EVENT HAS BEEN OBSERVED; THAT EVENT, A ONE-BRILLIANT FLARE, WAS PRODUCED AT 05/1532Z AT N22E40. THAT FLARE WAS ACCOMPANIED BY MINOR IONOSPHERIC EFFECTS AND PROBABLY REACHED CLASS-M X-RAY INTENSITY. THE LARGE, DYNAMIC REGION AT N18W05 STILL APPEARS VERY THREATENING; ABSORPTION FEATURES AND BRIGHTENINGS HAVE BEEN OBSERVED IN THE PLAGE, AND SOME PENUMBRA GROWTH MAY HAVE OCCURRED. SPECTROGRAPHIC ANALYSIS INDICATES THAT A DELTA COMPLEX STILL EXISTS IN THE TRAILER PENUMBRA, AND SEVERAL AREAS OF HIGH MAGNETIC GRADIENT EXIST IN THE REGION. DESPITE THE HIGH FLARE POTENTIAL OF THIS N18W05 REGION, LITTLE ENERGETIC ACTIVITY HAS OCCURRED THERE SO FAR. SOME SLIGHT DEVELOPMENT APPEARS TO HAVE OCCURRED IN THE N18W24 REGION, AND RECENT FLUCTUATIONS SUGGEST THAT SOME INSTABILITY EXISTS AT THAT SITE. THE ONE-BRILLIANT FLARE FROM N22E40 IMPLIES THAT THE N21E36 AND N22E47 REGIONS STILL RETAIN SIGNIFICANT FLARE POTENTIAL, DESPITE THEIR RELATIVELY BENIGN APPEARANCE IN WHITE LIGHT AND H-ALPHA. THE GEOMAGNETIC FIELD HAS REMAINED RELATIVELY QUIET DURING THE PAST 24 HOURS.

B. DESPITE THE LACK OF SIGNIFICANT FLARES FROM THE N18W05 REGIONS, ENERGETIC ACTIVITY IS EXPECTED TO BEGIN EVENTUALLY AT THAT SITE. THE N22E47, N21E36, AND N18W24 REGIONS ALSO ARE POTENTIAL PRODUCERS OF CLASS-M AND CLASS-C FLARES. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN RELATIVELY QUIET DURING THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 05 SEP/1700Z ENDING 08 SEP/1700Z.

CLASS M OR GREATER 90/90/90

CLASS X 15/10/10

PROTON EVENTS 05/05/05

D. OTTAWA 10.7 CM FLUX FOR 05/1400Z WAS 160. PREDICTED 10.7 CM FLUX FOR 06-08 SEP IS 161/160/160.

E. MAGNETIC A-FREDERICKSBURG FOR 04 SEP WAS 09. FOR 05 SEP ABOUT 07. PREDICTED AP FOR 06-08 SEP, 08/08/08.

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3988 Arnd