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HFUS BOU 110500M

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 192A ISSUED 0500Z 11 JULY 1971

CLASS C FLARES ARE EXPECTED AND AN OCCASIONAL CLASS M FLARE IS PROBABLE DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY FROM THE VISIBLE DISK HAS BEEN AT A LOW LEVEL. REGION 159 (S07E00) HAS PRODUCED A FEW NON-ENERGETIC SUBFLARES.

SEVERAL X-RAY EVENTS HAVE BEEN OBSERVED ON RADIO FREQUENCIES WHICH ARE BEING PRODUCED BY ACTIVITY IN REGION 148 WHICH EARLY ON THE 10TH MADE ITS WEST LIMB PASSAGE. REGION 159 DOES CONTAIN TWO WEAK DELTA CONFIGURATIONS IN ITS CENTRAL PORTION. REGION 163 (N13E72) IS NOT GROWING AND APPEARS STABLE. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL. CLASS C FLARES AND AN OCCASIONAL CLASS M FLARE CAN BE EXPECTED FROM REGION 159. THE GEOMAGNETIC FIELD WILL BE QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 11 JULY/0000Z ENDING 14 JULY/0000Z

CLASS M OR GREATER 70/70/70

CLASS X 10/10/10

PROTON EVENTS 05/07/10

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 192B ISSUED 2200Z 11 JULY 1971

ONLY CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 24 HOURS.

A. A CLASS M2 X-RAY BURST AT 11/0052Z WAS ASSOCIATED WITH EITHER A SUBNORMAL FLARE IN REGION 159 /S07W09/ OR A LIMB EVENT FROM REGION 148 /AT PRESENT ABOUT 23 DEGREES BEHIND THE WEST LIMB NEAR S13/. COMPARISON OF THE MAXIMA OF THE DIFFERENT EVENTS SUGGESTS THAT THE X-RAY BURST PROBABLY ORIGINATED FROM REGION 148.

ONLY CLASS C SUBFLARES AT THE RATE OF ABOUT ONE PER HOUR HAVE BEEN OBSERVED SINCE 11/0052Z. IN ADDITION TO REGION 159 THERE ARE TWO OTHER SUNSPOT GROUPS ON THE VISIBLE DISK--162 /S10E22/ AND 163 /N16E57/. BOTH 159 AND 163 HAVE CONTRIBUTED TO THE SUBFLARE ACTIVITY. REGION 159, WHICH CONSISTS OF NUMEROUS SMALL SPOTS EMBEDDED IN AN EXTENSIVE PLAGE, HAS SHOWN MUCH REORGANIZATION IN THE PAST 24 HOURS, AND IT NOW APPEARS TO BE MAGNETICALLY SIMPLE BIPOLAR IN STRUCTURE. ARCH FILAMENT SYSTEMS IN ITS NORTHEAST SECTION, HOWEVER, SUGGEST THAT NEW BIPOLAR FIELDS MAY BE EMERGING. MINOR LIMB ACTIVITY NEAR NO8E90 INDICATES THAT A NEW REGION IS APPROACHING THE DISK. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL DURING THE NEXT 72 HOURS. REGION 159 MAY PRODUCE A FEW SMALL CLASS M EVENTS AS IT CONTINUES TO EVOLVE. QUIET GEOMAGNETIC CONDITIONS SHOULD PERSIST THROUGH 14 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 12 JULY/0000Z ENDING 14 JULY/2400Z.

CLASS M OR GREATER 55/45/40

CLASS X 05/05/05

PROTON EVENTS 02/02/05

D. OTTAWA 10.7 CM FLUXES FOR 11/1400Z AND 11/1700Z WERE 108 AND 107 RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 12-14 JULY IS 105/105/105.

E. MAGNETIC A-FREDERICKSBURG FOR 10 JULY WAS 02. FOR 11 JULY ABOUT 05. PREDICTED AP FOR 12-14 JULY, 07/07/10.

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