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HXUS BOU 122210

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 133 ISSUED 2200Z 12 MAY 1972

A. THE FREQUENCY OF SUBFLARES HAS INCREASED SHARPLY. MOST FLARES HAVE ORIGINATED FROM SUNSPOT GROUPS 180 /N17W56/ AND 186 /S04E66/. A FEW EVENTS HAVE OCCURRED IN REGION 184 /S06E28/. SEVERAL FLARES HAVE PRODUCED CLASS C X-RAY BURSTS AND SMALL CENTIMETRIC RADIO BURSTS. ONE EVENT, A SUBNORMAL AT 12/1257Z IN REGION 180, WAS CLASS M1. REGIONS 176 /S14W57, C/220/ AND 180 /D/280/ ARE DECAYING SLOWLY. REGION 184 /D/90/ IS A SIMPLE BIPOLE BUT THE PRESENCE OF ARCH FILAMENTS INDICATES THAT NEW FIELDS ARE EMERGING AND FURTHER DEVELOPMENT CAN BE EXPECTED. SO FAR REGION 186 APPEARS TO BE A SIMPLE BIPOLE OF CLASS/AREA D/210. ADDITIONAL SMALL REGIONS HAVE ROTATED INTO VIEW NEAR S01E82 /NUMBER 189/ AND S08E78 /188/. LIMB ACTIVITY INDICATES THAT ADDITIONAL REGIONS MAY BE APPROACHING. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. FREQUENT SUBFLARES ARE EXPECTED DURING THE NEXT 24-36 HOURS WITH THE FREQUENCY OF SUCH EVENTS DECREASING THEREAFTER. SMALL CLASS M EVENTS ARE EXPECTED FROM REGIONS 180 AND 186. SMALL CLASS M EVENTS WILL BECOME INCREASINGLY LIKELY FROM REGION 184 IF GROWTH CONTINUES. THE GEOMAGNETIC FIELD SHOULD BECOME UNSETTLED WITHIN THE NEXT 24 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 13/0000Z ENDING 15/2400Z
CLASS M OR GREATER 45/45/45

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 12/1400Z, 12/1700Z AND 12/2000Z WERE 140, 145 AND 141, RESPECTIVELY.

PREDICTED 10.7 CM FLUX FOR 13-15 MAY IS 142/142/139.

E. MAGNETIC A-FREDERICKSBURG FOR 11 MAY WAS 08. FOR 12 MAY ABOUT 10. PREDICTED AP FOR 13-15 MAY IS 14/12/08.

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