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HXUS BOU 200500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 232A ISSUED 0500Z 20 AUG 1971

A CLASS M FLARE IS EXPECTED DURING THE NEXT 24 HOURS.

A. DURING THE PAST SEVEN HOURS, SOLAR ACTIVITY HAS CONSISTED PRIMARILY OF CLASS C SUBFLARES, PLAGE FLUCTUATIONS AND FILAMENT ACTIVITY IN REGION 235 (S14E52).

REGION 235 HAS CONTINUED TO DEVELOP IN WHITE LIGHT AND H-ALPHA. A DELTA CONFIGURATION IS PRESENT IN THE NORTH-EASTERN PART OF THE LARGE LEADER PENUMBRA, AND THE NEUTRAL LINE IS RELATIVELY COMPLEX. REGION 229 (S14W59) CONTAINS RELATIVELY COMPACT PLAGE AND HAS SHOWN RECENT SPOT GROWTH. OTHER REGIONS ARE UNIMPRESSIVE. RELATIVELY STRONG DEKAMETRIC CONTINUUM HAS BEEN OBSERVED RECENTLY AND IS BELIEVED TO BE ASSOCIATED WITH REGION 235. THE GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST SEVEN HOURS.

B. SOLAR ACTIVITY PROBABLY WILL INCREASE DURING THE NEXT 72 HOURS AS REGION 235 DEVELOPS. SPORADIC CLASS M FLARES AND PERHAPS ONE CLASS X FLARE ARE LIKELY DURING THE THREE-DAY FORECAST PERIOD. RELATIVELY QUIET GEOMAGNETIC CONDITIONS PROBABLY WILL CONTINUE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 AUG/0000Z ENDING 22 AUG/2400Z.  
CLASS M OR GREATER 85/85/90  
CLASS X 15/12/15

PROTON EVENTS 03/05/03

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 232B ISSUED 2200Z AUGUST 20 1971

CLASS C FLARES AND POSSIBLE M FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. REGION 235 (S12E39) HAS PRODUCED SEVERAL FLARES AND DARK SURGES. MOST OF THE FLARES ORIGINATED IN THE LEADER SPOT, THE WEST EDGE OF THE PENUMBRA. THE LEADER SPOT APPEARS TO BE ROTATING SLOWLY IN A COUNTER-CLOCKWISE DIRECTION. THE PLAGE OF REGION 235 IS UNIMPRESSIVE IN RESPECT TO SIZE OF THE SPOT GROUP. MOST OF THE PRESENT REGIONS APPEAR TO BE STABLE OR DECLINING. THE NEW REGION 238 (S06E80) SEEMS TO BE OLD REGION 193. REGION 238 IS SMALL BUT DISPLAYS BRIGHT PLAGE. THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED.

B. SOME ENERGETIC SOLAR ACTIVITY IS EXPECTED FROM REGION 235. THE NEW REGION 238 WILL POSSIBLY PRODUCE ENERGETIC FLARES IN 48-72 HOURS. THE GEOMAGNETIC FIELD WILL PROBABLY CONTINUE TO BE UNSETTLED.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING AUG 21/0000Z ENDING AUG 23/2400Z

CLASS M OR GREATER 85/87/90

CLASS X 15/15/15

PROTON EVENTS 05/05/08

D. OTTAWA 10.7 CM FLUXES FOR 20/1400Z, 20/1700Z AND 20/2000Z WERE 139.2, 137.8 AND 140, RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR AUG 20-22 IS 137/139/140.

E. MAGNETIC A-FREDERICKSBURG FOR AUG 19 WAS 03. FOR AUG 20 ABOUT 02. PREDICTED AP FOR AUG 21-23, 06/06/07.

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