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HFUS BOU 210500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 202A ISSUED 0500Z 21 JULY 1971

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

A. THE ONLY SOLAR FLARE REPORTED DURING THE PAST SEVEN HOURS CONSISTED OF A NON-ENERGETIC SUBNORMAL EVENT AT 20/2354Z IN REGION 176 /N14E05/. LITTLE RECENT CHANGE HAS OCCURRED IN THE COMPLEX OF SIX REGIONS EXTENDING ACROSS THE NORTHERN HEMISPHERE FROM REGION 164 /N07W34/ TO REGION 183 /N16E19/. THE INTERACTION ZONE BETWEEN REGION 164 AND REGION 177 /N09W25/ STILL CONTAINS A STRONG MAGNETIC FIELD GRADIENT AND EXHIBITS THE MOST DYNAMIC PLAGE ON THE DISK. REGION 181 /N15E52/ NOW CONTAINS A SMALL D-TYPE SPOT GROUP AND HAS PRODUCED RECENT FLUCTUATIONS IN H-ALPHA. THE GEOMAGNETIC FIELD HAS REMAINED QUIET.

B. OCCASIONAL CLASS C SUBFLARES ARE EXPECTED TO BE PRODUCED BY THE NORTHEASTERN COMPLEX OF SMALL REGIONS DURING THE NEXT 72 HOURS, AND THE INTERACTION ZONE BETWEEN REGIONS 164 AND 177 PROBABLY WILL BE THE SITE OF AT LEAST ONE CLASS M EVENT. QUIET GEOMAGNETIC CONDITIONS ARE EXPECTED TO CONTINUE UNTIL 22 JULY, WHEN UNSETLED CONDITIONS ARE EXPECTED TO BEGIN.

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

CLASS M OR GREATER 50/60/60

CLASS X 02/05/05

PROTON EVENTS 02/05/05

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FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO
SDF NUMBER 202B ISSUED 2200Z 21 JULY 1971

ONLY CLASS C ACTIVITY EXPECTED DURING THE NEXT 24 HOURS.

A. NINE CLASS C EVENTS HAVE OCCURRED DURING THE PAST 24 HOURS. THE LARGEST OPTICAL EVENT WAS AN IMPORTANCE IN FLARE AT 21/1708 IN REGION 167 /N16W77/. REGIONS 176 /N14W07/ AND 179 /N09W14/ HAVE SHOWN MINOR GROWTH IN SPOTS AND PLAGE. OTHER REGIONS SEEM TO BE DECAYING SLOWLY. THE AREA OF INTERACTION BETWEEN REGIONS 164 /N06W43/ AND 177 /N09W35/ IS STILL MARKED BY ENHANCED PLAGE, BUT THE AREA IS NOT DYNAMIC IN BEHAVIOR. THE LOW LEVEL OF THE 1-8A BACKGROUND FLUX, CURRENTLY ABOUT 1.2 TIMES TEN TO THE MINUS 4 ERG PER SQ. CM PER SEC, SUGGESTS THAT THE NORTHERN REGIONS DO NOT POSSESS THE DEVELOPMENT NECESSARY FOR EXTENSIVE ENERGETIC ACTIVITY. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED SINCE 21/1300Z.

B. THE PRESENT OUTLOOK IS FOR SOLAR ACTIVITY TO CONTINUE AT ITS PRESENT LOW LEVEL. ONE OR TWO ISOLATED SMALL CLASS M EVENTS MAY ORIGINATE FROM REGIONS 176 AND 177/164 DURING THE NEXT 72 HOURS, BUT SUSTAINED ENERGETIC ACTIVITY IS NOT EXPECTED. THE RECURRENT GEOMAGNETIC DISTURBANCE CALLED FOR ON 22 JULY HAS APPARENTLY DEVELOPED EARLIER THAN EXPECTED. THE GEOMAGNETIC FIELD WILL PROBABLY REMAIN UNSETLED FOR THE NEXT 48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 22 JULY/0000Z ENDING 24 JULY/2400Z.

CLASS M OR GREATER 35/35/35

CLASS X 01/01/01

PROTON EVENTS 01/01/01

D. OTTAWA 10.7CM FLUXES FOR 21/1400Z, 21/1700Z AND 21/2000Z WERE 108, 110, AND 106 RESPECTIVELY. PREDICTED 10.7CM FLUX FOR 22-24 JULY IS 105/108/108.

E. MAGNETIC A-FREDERICKSBURG FOR 20 JULY WAS 02. FOR 21 JULY ABOUT 10. PREDICTED AP FOR 22-24 JULY IS 12/10/08.

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