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HFUS BOU 180500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 199A ISSUED 0500Z 18 JULY 1971

CLASS C FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY DURING THE PAST 24 HOURS HAS BEEN AT A MODERATE LEVEL. MOST ALL THE ACTIVITY HAS BEEN FROM REGION 164 (N07E07). REGION 164 CONTINUES TO BE THE MOST INTERESTING DISK REGION BUT IT HAS NOT SHOWN ANY CHANGE DURING THE PAST 24 HOURS. THE OTHER DISK REGIONS ARE QUIET AND STABLE. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY WILL CONTINUE AT PRESENT LEVEL. THE GEOMAGNETIC FIELD WILL BE QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 18 JULY/0000Z ENDING 20 JULY/2400Z

CLASS M OR GREATER 40/40/40

CLASS X 02/02/02

PROTON EVENTS 01/01/01

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KBOU

HFUS BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 199B ISSUED 2200Z 18 JULY 1971

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

A. SOLAR ACTIVITY THE PAST 24 HOURS HAS CONSISTED OF ABOUT ONE CLASS C SUBFLARE EVERY TWO HOURS. REGIONS 164 /N04W07/ AND 176 /N14E33/ HAVE CONTRIBUTED TO THE ACTIVITY. REGION 176 IS A NEW REGION WHICH HAS DEVELOPED WITHIN THE PAST 24 HOURS. IT PRESENTLY CONTAINS A D-TYPE SUNSPOT GROUP AND A BRIGHT, COMPACT, AND FLUCTUATING PLAGE. REGION 164 REMAINS THE LARGEST DISK FEATURE WITH A CLASS E/390 SPOT GROUP. ITS SPOT GROUP HAS SHOWN VERY SLIGHT DECAY AND ITS PLAGE IS A LITTLE LESS COMPACT THAN 24 HOURS AGO. ITS LONGITUDINAL NEUTRAL LINE, HOWEVER, HAS BECOME MORE SHARPLY KINKED. SMALL SURGES AND AN ACTIVE PROMINENCE ON THE EAST LIMB NEAR N14 MARK THE RETURN OF REGION 137 WHICH PRODUCED FOUR CLASS M EVENTS DURING ITS LAST ROTATION. THE GEOMAGNETIC FIELD HAS BEEN QUIET EXCEPT FOR AN UNSETTLED PERIOD FROM 1200-1500Z TODAY.

B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW TO MODERATE LEVEL. REGIONS 164 AND 176 ARE THE MOST LIKELY SOURCES OF ACTIVITY. INFREQUENT SMALL M EVENTS ARE POSSIBLE FROM EITHER REGION. THE GEOMAGNETIC FIELD SHOULD BE QUIET.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 19 JULY/0000Z ENDING 21 JULY/2400Z.

CLASS M OR GREATER 35/40/40

CLASS X 02/02/02

PROTON EVENTS 01/01/01

D. OTTAWA 10.7 CM FLUXES FOR 18/1400Z AND 18/1700Z WERE BOTH 117. PREDICTED 10.7 CM FLUX FOR 19-21 JULY IS 116/116/118.

E. MAGNETIC A-FREDERICKSBURG FOR 17 JULY WAS 03. FOR 18 JULY ABOUT 08. PREDICTED AP FOR 19-21 JULY, 07/06/06.

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