

KBOU

HFUS BOU 200500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201A ISSUED 0500Z 20 JULY 1971

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

A. SOLAR ACTIVITY HAS BEEN AT A MODERATE LEVEL. CLASS C EVENTS HAVE
BEEN OBSERVED FROM SCATTERED REGIONS ACROSS THE DISK. THE REGIONS 176
(N12E25) AND 179 (N08E17) HAVE SHOWN THE MOST GROWTH AND DEVELOPMENT.
THE REST OF THE DISK REGIONS APPEAR QUITE STABLE. THE GEOMAGNETIC
FIELD IS QUIET.

B. SOLAR ACTIVITY WILL INCREASE IF THE REGIONS 176 AND 179 CONTINUE
TO GROW. A RECURRENT GEOMAGNETIC DISTURBANCE IS EXPECTED TO BEGIN ON
22 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 20 JULY/0000Z ENDING 22 JULY/2400Z

CLASS M OR GREATER 40/45/50

CLASS X 01/02/05

PROTON EVENTS 01/02/02

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HFUS BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201B ISSUED 2200Z 20 JULY 1971

A CLASS M EVENT IS EXPECTED WITHIN THE NEXT 24 HOURS.

A. THE NUMBER OF SUBFLARES HAS DECREASED MARKEDLY IN THE PAST 24 HOURS. REGIONS 181 /N15E55/ AND 177 /N09W22/ HAVE BEEN THE MOST ACTIVE WITH FOUR SUBFLARES EACH. THE NORTHERN HEMISPHERE OF THE VISIBLE SUN BETWEEN REGIONS 164 /N07W31/ AND 183 /N16E22/ APPEARS TO BE A DISORGANIZED CONGLOMERATION OF SMALL SUNSPOTS AND PORES WITH GENEROUSLY INTERMIXED MAGNETIC POLARITIES. THE NEUTRAL LINES WITHIN REGIONS AND THE DIVISION BETWEEN REGIONS ARE DIFFICULT TO DETERMINE. THE ASSOCIATED PLAGES ARE FOR THE MOST PART, HOWEVER, RELATIVELY FAINT AND SCATTERED. THE PRIMARY FOCUS OF CONCERN AT PRESENT IS THE AREA BETWEEN REGIONS 164 AND 177 WHERE THE LEADER OF 177 IS CROWDING THE DECAYING MAGNETIC FIELDS IN THE FOLLOWING SECTION OF 164. THE AREA OF INTERACTION BETWEEN THE REGIONS IS MARKED BY ENHANCED PLAGE. THE GEOMAGNETIC FIELD HAS BEEN QUIET.

B. ISOLATED ENERGETIC ACTIVITY IS LIKELY IF REGIONS 164 AND 177 CONTINUE TO INTERACT. SMALL CLASS M EVENTS ARE ALSO POSSIBLE FROM OTHER EVOLVING AREAS OF THE NORTHERN COMPLEX. THE GEOMAGNETIC FIELD IS EXPECTED TO BECOME UNSETTLED ON 22 JULY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20 JULY/0000Z ENDING 22 JULY/2400Z.

CLASS M OR GREATER 50/60/60

CLASS X 02/05/05

PROTON EVENTS 01/05/05

D. OTTAWA 10.7 CM FLUXES FOR 20/1400Z AND 20/1700Z WERE 116 AND 115 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 21-23 JULY IS 115/115/115.

E. MAGNETIC A-FREDERICKSBURG FOR 19 JULY WAS 09. FOR 20 JULY ABOUT 03 PREDICTED AP FOR 21-23 JULY, 07/15/12.

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