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HFUS BOU 270500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 208A ISSUED 0500Z 27 JULY 1971

OCCASIONAL CLASS C FLARES ARE EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST SEVEN HOURS, AND ONLY A FEW CLASS C SUBFLARES HAVE BEEN REPORTED. THE SPOTS OF REGION 195 (N1SW29) ARE NO LONGER VISIBLE, AND THE PLAGES OF REGIONS 195 AND 194 (N11W37) HAVE MERGED. DEVELOPMENT IS CONTINUING SLOWLY IN THE TRAILING SECTION OF REGION 194, AND THIS AREA PRESENTLY IS THE MOST INTERESTING DISK FEATURE. A WELL-DEFINED PLAGE CORRIDOR LEADING INTO THE MAIN SPOT IS VISIBLE IN REGION 197 (S16E45), SUGGESTING THAT A DELTA CONFIGURATION MAY EXIST THERE. A LARGE ENHANCED PLAGE RIBBON LIES TO THE EAST OF THE NEUTRAL LINE IN THE SOUTHERN PART OF REGION 197. A RELATIVELY UNIMPRESSIVE NEW PLAGE REGION IS VISIBLE AT NE12, BUT RECENT SURGE ACTIVITY SUGGESTS THAT A POSSIBLE SECOND REGION MAY STILL LIE BEHIND THE LIMB NEAR NE10.

OTHER REGIONS ARE DECLINING OR STABLE. THE GEOMAGNETIC FIELD AT BOULDER EXHIBITED A DECREASE OF ABOUT 35 GAMMAS DURING THE INTERVAL 26/2245-2320Z. UNSETTLED CONDITIONS ARE PRESENTLY BEING OBSERVED.

B. DURING THE NEXT 72 HOURS, SOLAR ACTIVITY PROBABLY WILL INCREASE IN THE TRAILER SECTION OF REGION 194 AND PERHAPS IN REGION 197. MINOR ACTIVITY ALSO MAY ORIGINATE IN THE REGION OR REGIONS NEAR THE LIMB AT NE11. UNSETTLED GEOMAGNETIC CONDITIONS PROBABLY WILL CONTINUE FOR THE NEXT 48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 27 JULY/0000Z ENDING 29 JULY/2400Z

CLASS M OR GREATER 50/55/50

CLASS X 02/02/02

PROTON EVENTS 01/02/02

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HFUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 208B ISSUED 2200Z 27 JULY 1971

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

A. SOLAR ACTIVITY DURING THE PAST 24 HOURS HAS BEEN
CONFINED TO NONENERGETIC SUBFLARES FROM REGIONS 176 (N14W90),
194(N12W43), AND 197 (S15E35) AND NON ENERGETIC SURGES ON
THE NE AND NW LIMBS. THE REGIONS ON THE VISIBLE DISK HAVE
SHOWN LITTLE CHANGE. THE NEW REGION IN THE NORTHEAST, 199
(N07E77), APPEARS TO CONTAIN AN H-TYPE SPOT. THIS REGION
HAS SO FAR PRODUCED ONLY MINOR SURGES. THE GEOMAGNETIC FIELD
HAS BEEN QUIET SINCE 27/0600Z.

B. SOLAR ACTIVITY IS EXPECTED TO CONTINUE AT A LOW LEVEL FOR
THE NEXT 72 HOURS. THE GEOMAGNETIC FIELD WILL HAVE UNSETLED
PERIODS FOR THE NEXT 48 HOURS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 28 JULY/0000Z ENDING 30 JULY/2400Z.

CLASS M OR GREATER 45/40/40

CLASS X 02/01/01

PROTON EVENTS 02/01/01

D. OTTAWA 10.7 CM FLUXES FOR 27/1400Z AND 27/1700Z WERE BOTH 115.
PREDICTED 10.7 CM FLUX FOR 28-30 JULY IS 112/110/112.

E. MAGNETIC A-FREDERICKSBURG FOR 26 JULY WAS 11. FOR 27 JULY
ABOUT 07. PREDICTED AP FOR 28-30 JULY, 10/10/08.

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