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HFUS BOU 100500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 191A ISSUED 0500Z 10 JULY 1971

CLASS C ACTIVITY IS EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY CONTINUES AT A LOW LEVEL. MOST OF THE ACTIVITY
DURING THE PAST 24 HOURS HAS BEEN ON THE NORTH EAST LIMB. A SMALL
H TYPE SPOT AND SMALL BRIGHT PLAGE ARE NOW VISIBLE AT N14E38. THE
REST OF THE DISK HAS BEEN QUIET. THE GEOMAGNETIC FIELD HAS HAD
PERIODS OF MINOR DISTURBANCE.

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

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 10 JULY/0000Z ENDING 13 JULY/0000Z

CLASS M OR GREATER 70/70/70

CLASS X 05/05/05

PROTON EVENTS 05/05/05

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HFUS BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 191B ISSUED 2200Z 10 JULY 1971

ONE OR TWO SMALL CLASS M FLARES AND CLASS C FLARES ARE EXPECTED
DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY GENERALLY HAS REMAINED AT A LOW LEVEL DURING
THE PAST 17 HOURS, EXCEPT FOR TWO SMALL CLASS M EVENTS PRODUCED
BY DEPARTING REGION 148 BEHIND THE LIMB AT SW13. THE FIRST OF
THESE EVENTS WAS A CLASS M2 ONE-BRILLIANT FLARE AND IMPORTANCE-2
SURGE AT 10/0420Z, AND THE SECOND EVENT WAS A CLASS M1 SUB-
BRILLIANT FLARE AT 10/1537Z. MINOR IONOSPHERIC EFFECTS AND TRIVIAL
RADIO BURSTS ACCCOMPANIED BOTH OF THESE CLASS M EVENTS. REGION 148
HAS REMAINED RELATIVELY QUIET SINCE THE 1537Z FLARE, AND ITS PLAGE
AND SPOTS ARE NOW OBSCURED BY THE LIMB. REGION 159 (~~W07E02~~) IS → S07E02
THE MOST IMPRESSIVE DISK FEATURE, BUT ONLY SLIGHT SPOT DEVELOPMENT
AND NON-ENERGETIC SUBFLARES HAVE BEEN OBSERVED THERE RECENTLY.
REGION 159 HAS AN UNUSUAL NEUTRAL LINE RUNNING EAST-WEST WITH KINKS
IN THE EASTERN PART, AND AN AREA OF LEADING POLARITY EXISTS IN THE
SOUTHEASTERN CORNER OF THE PLAGE WHERE A SECOND NEUTRAL LINE IS
VISIBLE. FLUCTUATIONS HAVE BEEN OBSERVED IN THE BRIGHT PLAGE ALONG
THE EAST-WEST PART OF THE PRIMARY NEUTRAL LINE IN REGION 159. THE
NEW REGION 163 (N13E74) CONTAINS A GROWING D-TYPE SPOT GROUP
ACCOMPANIED BY PLAGE OF MODERATE INTENSITY. WHEN REGION 163 FIRST
CROSSED THE LIMB, IT EXHIBITED FLARE-BRIGHT PLAGE WITH STRONG
DOPPLER SHIFTING. SLIGHT SPOT GROWTH HAS OCCURRED IN THE LEADER OF
REGION 162 (S11E36), BUT OTHERWISE THIS CENTER IS UNIMPRESSIVE. THE
GEOMAGNETIC FIELD HAS REMAINED QUIET DURING THE PAST 17 HOURS.

B. DURING THE 72-HOUR FORECAST PERIOD, SOLAR ACTIVITY PROBABLY WILL
REMAIN NEAR THE PRESENT LEVEL. WITHIN 24 HOURS, EVENTS IN DEPARTING
REGION 148 WILL BE SHIELDED BY THE WEST LIMB. REGIONS 159 AND 163
MAY PRODUCE INFREQUENT SMALL CLASS M EVENTS AND SPORADIC CLASS C
SUBFLARES. WITH ADDITIONAL DEVELOPMENT, REGION 159 COULD PRODUCE A
LARGE CLASS M OR SMALL CLASS X EVENT. THE GEOMAGNETIC FIELD PROBABLY
WILL REMAIN GENERALLY QUIET WITH OCCASIONAL UNSETTLED PERIODS
DURING THE NEXT THREE DAYS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR
PERIODS BEGINNING 11 JULY/0000Z ENDING 13 JULY/2400Z.

CLASS M OR GREATER 70/70/70

CLASS X 10/10/10

PROTON EVENTS 05/07/10

D. OTTAWA 10.7 CM FLUXES FOR 10/1400Z, 10/1700Z AND 10/2000Z WERE
103, 105 AND 103 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 11-13
JULY IS 103/105/108.

E. MAGNETIC A-FREDERICKSBURG FOR 09 JULY WAS 08. FOR 10 JULY
ABOUT 04 PREDICTED AP FOR 11-13 JULY, 12/10/08.

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