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HXUS BOU 190500

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 231A ISSUED 0500Z 19 AUGUST 1971

BOTH CLASS C AND M FLARES EXPECTED DURING THE NEXT 24 HOURS.

A. CLASS M FLARE OCCURRED. REGION 235 (S15E65) PRODUCED AN M3
SUBFLARE AND EIGHT OTHER SUBFLARES. ALL OTHER REGIONS
ARE EITHER STABLE OR DECLINING. THE GEOMAGNETIC FIELD
HAS REMAINED UNSETTLED FOR THE LAST SEVEN HOURS.

B. CONTINUED CLASS C AND PERHAPS CLASS M SUBFLARES
EXPECTED FROM REGION 235. OTHER REGIONS SHOULD REMAIN
QUIET. THE GEOMAGNETIC FIELD WILL REMAIN UNSETTLED FOR THE NEXT
72 HOURS.

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

CLASS M OR GREATER 65/50/50

CLASS X 01/01/01

PROTON EVENTS 01/01/01

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HFUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 231B ISSUED 2200Z 19 AUGUST 1971

CLASS M FLARES ARE EXPECTED WITH A CLASS X POSSIBLE FROM
REGION 235.

A. SLOW GROWTH HAS OCCURRED IN REGION 229 /S14W56/ DURING
THE PAST 24 HOURS WITH THE PLAGE CURRENTLY ENHANCED. OTHER-
WISE THE DISK IS DOMINATED BY REGION 235 /S14E55/. THIS
REGION IS CLASSIFIED AS A DELTA CONFIGURATION WITH A GRADIENT
OF APPROXIMATELY 25 GAUSS/100 KM ACROSS THE DELTA. THE
SUNSPOT GROUP IS A CLASS F WITH MAXIMUM STRENGTH OF 2600
GAUSS IN THE LEADER AND 2400 GAUSS IN THE TRAILER. ARCH
FILAMENT STRUCTURE INDICATES THE REGION IS STILL GROWING.
THE 8.6 MM TEMPERATURE FOR THIS REGION TODAY IS 13 PERCENT
ABOVE AVERAGE. THIS REGION PRODUCED AN M2 AT 13/2352Z AND
AN M1 AT 19/0341Z. THE GEOMAGNETIC FIELD HAS BEEN QUIET TO
SLIGHTLY UNSETTLED.

B. REGION 235 IS EXPECTED TO DOMINATE SOLAR ACTIVITY FOR
THE NEXT 72 HOURS. WITH CONTINUING GROWTH IN COMPLEXITY,
CLASS M FLARES ARE EXPECTED DAILY WITH A CLASS X FLARE
POSSIBLE. THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED,
QUIET, AND UNSETTLED FOR 20, 21 AND 22 AUGUST RESPECTIVELY.

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

CLASS M OR GREATER 85/80/90

CLASS X 08/05/08

PROTON EVENTS 03/02/03

D. OTTAWA 10.7CM FLUXES FOR 19/1400Z, 19/1700Z AND 19/2000Z
WERE 124, 123 AND 126 RESPECTIVELY. PREDICTED 10.7XM FLUX
FOR 20-22 AUG IS 130/137/144.

E. MAGNETIC A-FREDERICKSBURG FOR 18 AUG WAS 14. FOR 19 AUG
ABOUT 06. PREDICTED AP FOR 20-22 AUG IS 10/06/10.

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