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KMSC

HAUS BOU 280450Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 459A ISSUED 0400Z 28 NOV 1969

CLASS M FLARES ARE EXPECTED FROM THE NW REGION DURING THE
NEXT 13 HOURS.

A. THE DECAYING ACTIVE CENTER NEAR N14 WEST LIMB PRODUCED A
CLASS X FLARE (OPTICALLY IMPORTANCE 1B) BEGINNING ABOUT
27/1923UT. ITS DURATION WAS APPROXIMATELY 30 MINUTES WITH
3 SEPARATE MAXIMA AND WAS ACCOMPANIED BY AN IMPORTANCE 2 SURGE.
THE INTENSE X-RAY BURST ASSOCIATED WITH THE FLARE CAUSED A
NEGATIVE 24-GAMMA CROCHET ON THE H-COMPONENT OF THE GEOMAGNETIC
FIELD AT 1937Z. GROUND-LEVEL NEUTRON MONITORS DETECTED NO
PERCEPTIBLE INCREASE IN COUNTING RATES DURING THE HALF-HOUR
PERIOD. ALTHOUGH METER WAVELENGTH EMISSION WAS INSIGNIFICANT
AT THE TIME OF THE FLARE A WEAK DECAMETRIC CONTINUUM
(A KIND OF DEGENERATE TYPE IV) DID FOLLOW. MOREOVER THE CM BURST
PROFILE I.E. FLUX AS A FUNCTION OF FREQUENCY DESCRIBED A U-TYPE
CONFIGURATION BUT THE MAGNITUDE OF THE PEAK FLUXES INDICATED A
BORDERLINE CASE FOR HIGH ENERGY PROTONS IN THE EARTH'S VICINITY.
AS OF THE TIME OF THIS WRITING NO PARTICLE FLUX ENHANCEMENTS
HAVE BEEN OBSERVED BY EITHER THE ALASKAN RIOMETER NETWORK
OR THE ATS-1 SYNCHRONOUS SATELLITE. WHAT REMAINS VISIBLE OF THE
NW REGION IS A SPOT OF CLASS/AREA E/1210. SMALL CONICAL-SHAPED
SURGES HAVE BEEN OBSERVED AS IT PASSES OVER WEST LIMB. THE
GROUP CENTERED NEAR S15E42 HAS BEEN INACTIVE SINCE ITS M FLARE
OF YESTERDAY. MOST OF THE FAINT PLAGE THERE IS ASSOCIATED WITH
THE TRAILING PORTION.

B. SEE PREVIOUS MESSAGE.

C. FLARE AND PRTON EVENT PROBABILITIES FOR THE NEXT THREE 24
HOUR PERIODS BEGINNING 28 NOV/0400Z ENDING 01 DEC/0400Z.

CLASS M OR GREATER 80/50/30

CLASS X 40/10/10

PROTON EVENTS 30/10/10

D. OTTAWA 10-CM FLUXES FOR 27/1700 AND 2000Z WERE 178 AND 179
RESPECTIVELY.

SOLTERWARN

SPAN

BT

HAUS BOU 280450Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 459A ISSUED 0400Z 28 NOV 1969

CLASS M FLARES ARE EXPECTED FROM THE NW REGION DURING THE NEXT 13 HOURS.

A. THE DECAYING ACTIVE CENTER NEAR N14 WEST LIMB PRODUCED A CLASS X FLARE (OPTICALLY IMPORTANCE 1B) BEGINNING ABOUT 27/1923UT. ITS DURATION WAS APPROXIMATELY 30 MINUTES WITH 3 SEPARATE MAXIMA AND WAS ACCOMPANIED BY AN IMPORTANCE 2 SURGE. THE INTENSE X-RAY BURST ASSOCIATED WITH THE FLARE CAUSED A NEGATIVE 24-GAMMA CROCHET ON THE H-COMPONENT OF THE GEOMAGNETIC FIELD AT 1937Z. GROUND-LEVEL NEUTRON MONITORS DETECTED NO PERCEPTIBLE INCREASE IN COUNTING RATES DURING THE HALF-HOUR PERIOD. ALTHOUGH METER WAVELENGTH EMISSION WAS INSIGNIFICANT AT THE TIME OF THE FLARE, A WEAK DECA-METRIC CONTINUUM (A KIND OF DEGENERATE TYPE IV) DID FOLLOW. MOREOVER THE CM BURST PROFILE, I.E. FLUX AS A FUNCTION OF FREQUENCY, DESCRIBED A U-TYPE CONFIGURATION, BUT THE MAGNITUDE OF THE PEAK FLUXES INDICATED A BORDERLINE CASE FOR HIGH ENERGY PROTONS IN THE EARTH'S VICINITY. AS OF THE TIME OF THIS WRITING NO PARTICLE FLUX ENHANCEMENTS HAVE BEEN OBSERVED BY EITHER THE ALASKAN RIOMETER NETWORK OR THE ATS-1 SYNCHRONOUS SATELLITE. WHAT REMAINS VISIBLE OF THE NW REGION IS A SPOT OF CLASS/AREA E/1210. SMALL CONICAL-SHAPED SURGES HAVE BEEN OBSERVED AS IT PASSES OVER WEST LIMB. THE GROUP CENTERED NEAR S15E42 HAS BEEN INACTIVE SINCE ITS M FLARE OF YESTERDAY. MOST OF THE FAINT PLAGE THERE IS ASSOCIATED WITH THE TRAILING PORTION.

B. SEE PREVIOUS MESSAGE.

C. FLARE AND PRTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 28 NOV/0400Z ENDING 01 DEC/0400Z.

CLASS M OR GREATER 80/50/30

CLASS X 40/10/10

PROTON EVENTS 30/10/10

D. OTTAWA 10-CM FLUXES FOR 27/1700 AND 2000Z WERE 178 AND 179 RESPECTIVELY.

SOLTERWARN

SPAN

BT

RMSD
HAUS BOU 281715Z

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO

SDF NUMBER 459B ISSUED 1700Z 28 NOV1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 11 HOURS.

A. THREE CLASS M FLARES WERE OBSERVED AT 28/0108Z(IMP SN) AT N16W84 28/0245Z(IMP SB) AT N12W85 AND AT 28/0527Z(IMP SN) AT N10W88. THIS REGION APPARENTLY PRODUCED A FLARE BEHIND THE WEST LIMB BASED ON IONOSPHERIC EFFECTS STARTING AT 28/1500Z WHICH WAS FOLLOWED BY IMPORTANCE ONE BRIGHT LOOPS AT 28/1531Z AT N16WL. THE REGION AT S15E35 HAS SHOWN LITTLE CHANGE AND HAS PRODUCED ONLY CLASS C EVENTS DURING THE PAST 24 HOURS. NEW A-TYPE SPOT GROUPS ARE LOCATED NEAR N26W47 N24E73 S13E03 S06W02 N27W36 AND N16W47.

PROTON FLUXES ARE AT BACKGROUND. THE GEOMAGNETIC FIELD IS QUIET.

B. SOLAR ACTIVITY SHOULD DROP OFF SHARPLY AS THE ACTIVE CENTER AT N13 ROTATES FURTHER BEHIND WEST LIMB TODAY. NO REGION CURRENTLY ON THE DISK IS CAPABLE OF MAJOR ACTIVITY.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 28/1700Z ENDING 02/1700Z.

CLASS M OR GREATER 50/30/30

CLASS X 20/05/05

PROTON EVENTS 10/02/02

D. OTTAWA 10.7 CM FLUX AT 1400Z WAS 168. PREDICTED 155/148/140.

E. MAGNETIC A-FREDERICKSBURG FOR 27 NOV WAS 20. FOR 28 NOV

ABOUT 08. PREDICTED AP FOR 29 NOV-01 DEC 08/06/06.

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