

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 02/16/86 00:00:00

End : 02/16/86 23:59:00

16 22:00

2146

HFUS3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 047

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 FEB 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. THE DISK IS CURRENTLY SPOTLESS. FREQUENT TYPE III AND TYPE V RADIO SWEEP ACTIVITY HAVE BEEN OBSERVED TODAY, MOST LIKELY ASSOCIATED WITH REGION 4713 WHICH IS NOW ABOUT TWO DAYS PAST WEST LIMB. A 14 DEGREE LONG FILAMENT DISAPPEARED FROM S18E37 DURING THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE VERY LOW. OLD REGION 4712 IS DUE AT EAST LIMB NEAR S04 LATE ON FEB. 19, BUT IS NOT EXPECTED TO INCREASE THE OVERALL LEVEL OF ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED. A POLAR CAP ABSORPTION WAS DETECTED FROM 15/2300Z TO 16/1000Z. THE GREATER THAN 10 MEV PROTON EVENT WAS STILL IN PROGRESS AT ISSUE TIME, BUT WANING. A SUDDEN IMPULSE OF APPROXIMATELY 15 GAMMA WAS RECORDED AT 1837Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS PREDICTED TO BE UNSETTLED TO ACTIVE ON FEB. 17 AND 19. ACTIVE MINOR STORM CONDITIONS ARE ANTICIPATED FEB. 18 AS A RESULT OF THE M-6 FLARE WHICH OCCURRED NEAR MIDDAY ON FEB. 14.

III. EVENT PROBABILITIES 17 FEB-19 FEB

CLASS M 05/01/01

CLASS X 01/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 FEB 073

PREDICTED 17 FEB-19 FEB 071/070/069

90 DAY MEAN 16 FEB 078

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 FEB 005/006

ESTIMATED AFR/AP 16 FEB 005/008

PREDICTED AFR/AP 17 FEB-19 FEB 010/015-025/035-015/020

SOLTERWARN

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