SESC Solar Summary and Forecast - For Joe Hirman
Begin: 10/20/86 00:00:00
End : 10/20/86 23:59:00

10/20 22:00

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HFUS3 BOU 202200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 293
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 20 OCT 1986
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100Z
TO 20/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4750
(N23E34) APPARENTLY REACHED ITS PEAK IN GROWTH AND EVOLUTION
AND MAY HAVE ENTERED ITS INITIAL DECAY PHASE. IT SIMPLIFIED
TO A BETA-GAMMA MAGNETIC CONFIGURATION. IT PRODUCED SEVERAL
SMALL C-CLASS X-RAY EVENTS - THE LARGEST WAS A C5/ON EVENT WITH
A MAXIMUM AT 19/2116Z WITH ASSOCIATED MINOR RADIO PARAMETERS.
IT CONTINUED TO PRODUCE A 245 MHZ RADIO NOISE STORM THROUGHOUT
THE PERIOD. NEWLY NUMBERED REGION 4751 (S14E71) WAS AN
ALPHA-TYPE WITH RUDIMENTARY PENUMBRA.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW TO MODERATE. REGION 4750 PROVIDES A GOOD CHANCE OF M-CLASS
X-RAY EVENTS.
IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z:
THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO UNSETTLED. BRIEF
MAJOR STORM CONDITIONS OCCURRED AT HIGH LATITUDES LATE IN THE
PERIOD.
IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO BE AT ACTIVE TO MINOR STORM LEVELS. THIS IS IN
ACCORDANCE WITH A RECURRENT ACTIVE-TO-MINOR STORM DISTURBANCE
PATTERN AS WELL AS AN EFFECT OF ACTIVE FLARE EVENTS OF THE
PAST FIVE DAYS. STORM CONDITIONS ARE EXPECTED AT HIGH LATITUDES
OCCASIONALLY AND DURING LOCAL MIDNIGHT PERIODS AT MID-LATITUDES.
III. EVENT PROBABILITIES 21 OCT-23 OCT
CLASS M 70/65/60
CLASS X 07/06/05
PROTON 05/10/15
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 20 OCT 093
PREDICTED 21 OCT-23 OCT 095/097/098
90 DAY MEAN 20 OCT 071
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 19 OCT 017/027
ESTIMATED AFR/AP 20 OCT 013/020
PREDICTED AFR/AP 21 OCT-23 OCT 025/035-026/030-025/030

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