

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/16/86 00:00:00

End : 10/16/86 23:59:00

10/16 22:00

0020

HFUS3 BDU 162200 COR 02

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 289

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 OCT 1986

..... C O R R E C T E D C O P Y .....

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW DURING THE PAST 24 HOURS. NEW REGION 4750 (N21E85) IS CURRENTLY A BXO/BETA SPOT GROUP THAT HAS BEEN PRODUCING C-CLASS X-RAY EVENTS AND EARLIER TODAY PRODUCED AND ERUPTIVE PROMINENCE WHILE STILL ON THE LIMB. THE EJECTA EXTENDED OUT PAST A DISTANCE OF .12RV. IN ADDITION, SMM OBSERVED AND REPORTED A CORONAL MASS EJECTION ON THE NORTHWEST LIMB LATE YESTERDAY AFTERNOON. BECAUSE OF THE UNFAVORABLE PARAMETERS, ENHANCEMENT EXPECTATIONS ARE MINIMAL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE VERY LOW. REGION 4750 HAS NOT FULLY ROTATED ON THE DISK YET AND THERE APPEARS TO BE POSSIBLY ANOTHER REGION BEHIND 4750. CURRENT ANALYSIS OF THE REGION DOES NOT SUGGEST ANY SIGNIFICANT ELEVATION IN ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO UNSETTLED DURING THE PREVIOUS 24 HOURS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY ACTIVE FOR THE NEXT THREE DAYS. THERE IS A POSSIBILITY OF BRIEF MINOR STORM CONDITIONS AT HIGH LATITUDES ON 17 OCT. RECURRENCE CONTINUES TO BE THE BASIS FOR THE FORECAST CONDITIONS.

III. EVENT PROBABILITIES 17 OCT-19 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 OCT 080

PREDICTED 17 OCT-19 OCT 085/085/085

90 DAY MEAN 16 OCT 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 OCT 011/023

ESTIMATED AFR/AP 16 OCT 011/015

PREDICTED AFR/AP 17 OCT-19 OCT 020/025-015/020-015/020

CORRECTED DISTANCE OF EJECTA

SOLTERWARN

BT

NNNN

<003>

16 22:00

