

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 07/16/87 00:00:00

End : 07/16/87 23:59:00

07/16 22:00

2218  
HFUS3 BOU 162200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 0E

NNNN

<003>  
07/16 22:00

2219  
HFUS3 BOU 162200  
197

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 16 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z  
TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 2823  
(N27W74) HAS REMAINED GENERALLY QUIET AND STABLE. NEW  
REGION 4824 (S32E68, BXO/BETA) ROTATED ONTO THE DISK  
OVERNIGHT. THE B9.2 (15/1304Z) AND C4.4 (16/0104) X-RAY  
EVENTS THAT OCCURRED WERE DURING THE SAME TIME FRAME AS  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 197

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
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OVERNIGHT. THE B9.2 (15/1304Z) AND C4.4 (16/0104) X-RAY  
EVENTS THAT OCCURRED WERE DURING THE SAME TIME FRAME AS  
TWO CORONAL MASS EJECTIONS OBSERVED BY SMM. BOTH OF THE  
EJECTIONS CAME FROM THE SAME GENERAL AREA AS THE LOCATION  
OF REGION 4824. THE REMAINDER OF THE DISK AND LIMBS ARE  
QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE  
VERY LOW. THE POSSIBILITY EXISTS THAT REGION 4824 WILL  
PRODUCE SIGNIFICANT ACTIVITY, BUT DATA AND ANALYSIS IS NOT  
COMPLETE ENOUGH AT THIS TIME FOR A BETTER DETERMINATION.

IIA. GEOPHYSICAL ACTIVITY FORECAST: U2UHTUSST(1TSHLM+L, (U3H, M+L,  
5R1HQSSPSIURO(QRVE AT MID  
LATITUDES FOR THE PAST 24 HOURS. HIGH LATITUDE STATIONS WERE  
AT MINOR STORM LEVELS EXCEPT BETWEEN 1330-1930UT TODAY  
WHEN UNSETTLED TO ACTIVE CONDITIONS WERE OBSERVED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS  
EXPECTED TO BE UNSETTLED TO ACTIVE ON 17 AND 19 JULY. THE  
FIELD IS EXPECTED TO BE GENERALLY UNSETTLED ON 18 JULY. THE  
ACTIVE CONDITIONS ARE EXPECTED DUE TO A COMBINATION OF  
RECURRENT AND POSSIBLE ENHANCEMENT FROM THE REPORTED  
CORONAL MASS EJECTIONS.

III. EVENT PROBABILITIES 17 JUL-19 JUL

CLASS M 01/01/01  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JUL 078  
PREDICTED 17 JUL-19 JUL 080/081/083  
90 DAY MEAN 16 JUL 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 JUL 022/029  
ESTIMATED AFR/AP 16 JUL 025/030  
PREDICTED AFR/AP 17 JUL-19 JUL 015/020-015/015-015/018

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07/16 22:00

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HFUS3 BOU 162200 COR  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 197

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 16 JUL 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 2823 (N27W74) HAS REMAINED GENERALLY QUIET AND STABLE. NEW REGION 4824 (S32E68, BXD/BETA) ROTATED ONTO THE DISK OVERNIGHT. THE B9.2 (15/1304Z) AND C4.4 (16/0104) X-RAY EVENTS THAT OCCURRED WERE DURING THE SAME TIME FRAME AS TWO CORONAL MASS EJECTIONS OBSERVED BY SMM. BOTH OF THE EJECTIONS CAME FROM THE SAME GENERAL AREA AS THE LOCATION OF REGION 4824. THE REMAINDER OF THE DISK AND LIMBS ARE QUIET.

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IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY ACTIVE AT MID LATITUDES FOR THE PAST 24 HOURS. HIGH LATITUDE STATIONS WERE AT MINOR STORM LEVELS EXCEPT BETWEEN 1330-1930UT TODAY WHEN UNSETTLED TO ACTIVE CONDITIONS WERE OBSERVED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE ON 17 AND 19 JULY. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED ON 18 JULY. THE ACTIVE CONDITIONS ARE EXPECTED DUE TO A COMBINATION OF RECURRENCE AND POSSIBLE ENHANCEMENT FROM THE REPORTED CORONAL MASS EJECTIONS.

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