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HFUS J:BOU 171300 COR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 168A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 17 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
16/1200UT TO 17/1200UT:

SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3157 (S24W48) PRO-
DUCED A M2/SB AT 17/0001Z. A 2300 FU BURST AT 245 MHZ, BUT
ONLY 40 FU AT 2695 MHZ, ACCOMPANIED THIS FLARE. A M1 BEGAN
AT 0943Z AND MAXED AT 0950Z. RADIO BURSTS MAXED AT 0949Z.
SF FLARE BEGAN AT 0951Z IN REGION 3158 (S23W25) AND A SB
FLARE BEGAN AT 0954Z IN REGION 3161 (S21E10). REGION 3158 HAS
HAD TWO FLARES CAUSED BY FILAMENT ACTIVATION. REGION 3157 MAY
HAVE A WEAK DELTA IN ITS LEADING STRUCTURE. REGION 3161 CON-
TINUES ITS GROWTH AND HAS HAD SIX SUBFLARES DURING THE
PAST 24 HOURS.

IB. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. FROM THE CURRENT
ACTIVE CONDITIONS, THE FIELD IS EXPECTED TO GRADUALLY ABATE
THROUGH THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 18-20 JUN

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 16 JUN 164

ESTIMATED 17 JUN 168

PREDICTED 18-20 JUN 171/172/172

90 DAY MEAN 16 JUN 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 JUN 16 AP 16 JUN 21

ESTIMATED AFR 16 JUN 16 AFR/AP 17 JUN 17/18

PREDICTED AFR/AP 18-20 JUN 12/15 10/10 08/08

SOLTERWARN

HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO
SDF NUMBER 168B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY
ISSUED 200 UT 17 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200UT
TO 17/2200UT: SINCE 17/1200Z ONLY SMALL C-CLASS ACTIVITY HAS
BEEN OBSERVED. REGION 3161 (S21E03) IS NOW A BETA-GAMMA-DELTA
MAGNETIC CLASS AND HAS GROWN SIGNIFICANTLY IN THE PAST 24 HOURS.
REGION 3157 (S25W54) IS NO LONGER A DELTA CONFIGURATION BUT DOES
CONTINUE TO SHOW GROWTH.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO
MODERATE BASED ON THE BEHAVIOR OF REGIONS 3161 AND 3157.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED TO ACTIVE. GENERALLY UNSETTLED CONDITIONS SHOULD
DOMINATE THE COMING 24 HOURS.

III. EVENT PROBABILITIES 18 JUNE - 20 JUNE

CLASS M	40/40/40
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	17 JUNE	166
PREDICTED	18-20 JUNE	171/172/172
90-DAY MEAN	17 JUNE	194

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	16 JUNE	19/21
ESTIMATED AFR/AP	17 JUNE	15/13
PREDICTED AFR/AP	18-20 JUNE	12/15 - 10/10 - 08/08

SOLTERWARN
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