

AFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 158

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 07 JUN 1985

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100
TO 07/2100Z: SOLAR ACTIVITY WAS VERY LOW. ACTIVE SURGING ON THE
EAST LIMB FROM S03 TO N01 EXTENDED TO .03 SOLAR RADII THE LAST
HALF OF THE PERIOD. REGION 4663 (S00E60) ROTATED ONTO THE DISK
SO THAT ITS DSO (WHITE-LIGHT CLASSIFICATION) BETA-TYPE

(MAGNETIC) COULD BE SEEN. IT BRIEFLY SUPPORTED AN ARCHED
FILAMENT SYSTEM AND DARK FILAMENT. REGION 4660 (S22E28) ALSO
PRODUCED AN ARCHED FILAMENT SYSTEM. IT REMAINED A CAO BETA-TYPE
WITH ONLY SLIGHT DECAY. REGION 4662 (S14E26) CONTINUED AS THE
LARGEST SPOTTED AREA WITH ITS HHX ALPHA-TYPE UNCHANGED. REGION
4659 (S04E13) PROVIDED AN ACTIVE DARK FILAMENT IN ITS MODERATE
TO DULL PLAGE, WHILE REGION 4661 (S20W98) ROTATED AROUND THE
WEST LIMB WITH DULL PLAGE. NO NEW REGION WAS ASSIGNED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
VERY LOW. RETURNING REGION 4655 (S08, CAR 262) DOES NOT PROVIDE
SIGNIFICANT ACTIVITY POTENTIAL AND IS EXPECTED AT 10/1600Z.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z:
GEOMAGNETIC ACTIVITY WAS AT A MINOR STORM LEVEL. AN INITIAL
SUDDEN STORM COMMENCEMENT AT 06/0544Z WAS FOLLOWED BY GENERALLY
ACTIVE CONDITIONS UNTIL 07/0600Z WHEN MINOR STORM LEVELS
OCCURRED AT MID LATITUDES UNTIL 07/1330Z. HIGH LATITUDES
EXPERIENCED MAJOR STORM LEVELS FROM 07/0430 UNTIL 07/1330Z.
THIS DISTURBANCE WAS PROBABLY DUE TO THE DISAPPEARING FILAMENTS
OF 1-3 JUN: A 15 DEGREE LONG FILAMENT LOCATED AT N15E22 WAS
MISSING BY 01/1300Z; A FOUR DEGREE LONG FILAMENT LOCATED AT
S37E16 WAS MISSING BY 01/1400Z; AND A 23 DEGREE LONG FILAMENT
LOCATED AT S25W25 FRACTURED AND DISAPPEARED OVER A THREE DAY
PERIOD STARTING AT 01/1123Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GEOMAGNETIC ACTIVITY IS
EXPECTED TO BE ACTIVE THROUGH THE FIRST DAY (8 JUN). BRIEF
MINOR STORM CONDITIONS ARE POSSIBLE DURING LOCAL MID-NIGHT
PERIODS. THE SECOND AND THIRD DAYS ARE EXPECTED TO DROP DOWN TO
AN UNSETTLED LEVEL.

III. EVENT PROBABILITIES 08 JUN-10 JUN

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 JUN 086

PREDICTED 08 JUN-10 JUN 087/088/088

90 DAY MEAN 07 JUN 077

V. GEOMAGNETIC A INDICES

OBSERVED: AFR/AP 06 JUN 026/026

ESTIMATED AFR/AP 07 JUN 029/040

PREDICTED AFR/AP 08 JUN-10 JUN 019/020-010/015-008/010

SOLTERWARN

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