

HFUS 3 BOU 022200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 153B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 02 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS INCREASED TO MODERATE  
LEVELS DURING THE PAST 9 HOURS. THE MOST SIGNIFICANT EVENT  
DURING THE PERIOD WAS AN M9/1B FLARE FROM REGION 3763 (S08E73).  
THE EVENT BEGAN AT 1525UT AND PEAKED AT 1554UT. THE FLARE WAS  
ACCOMPANIED BY CENIMETRIC MICROWAVE BURSTS WHICH INCREASED IN  
INTENSITX THROUGHTOUT THE SPECTRUM, PEAKING AT 1000 SOLAR FLUX  
UNITS AT 15.4 GHZ. ALSO OBSERVED IN CONJUNCTION WITH THIS EVENT  
WERE MODERATE SHORT WAVE FADES UP TO 22MHZ IN THE SUNLIT  
HEMISPHERES. TYPE II/IV SWEEPS WERE ALSO OBSERVED WITH THE  
EVENT. OTHER REGIONS ON THE SUN PRODUCED ONLY SMALL C-CLASS  
EVENTS OF LITTLE CONSEQUENCE.

IB. SOLAR ACTIVITY FORECAST: CONSIDERABLE GROWTH IS OCCURRING  
IN THE EASTER N HALF OF THE SUN. REGION 3758 (N18E21) HAS  
DEVELOPED AN ARCH FILAMENT SYSTEM AND HAS SHOWN STEADY GOWTH  
IN BOTH MICROWAVE AND OPTICAL EMISSIONS. REGION 3763 MENTIONED  
EARLIER WILL CONTINUE TO BE CAPABLE OF M-CLASS XRAY EVENTS AND  
WILL POSE AN INCREASED RISK OF NEAR EARTH PROTON ENHANCEMENTS  
AS IT CROSSES THE CENTER OF THE SOLAR DISK IN SEVERAL DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: DURING THE CURRENT UT  
DAY., GEOMAGNETIC ACTIVITY HAS DECLINED TO UNSETTLED LEVELS FROM  
ACTIVE CONDITIONS OBSERVED YESTERDAY. SINCE MOST OF THE LARGE  
ACTIVE REGIONS ON THE SUN ARE EAST OF CENTRAL MERIDIAN, IT IS  
UNLIKELY THAT A MAJOR FLARE INDUCED GEOMAGNETIC DISTURBANCE  
WILL OCCUR OVER THE NEXT 1 TO 3 DAYS. THEREFORE, THE  
GEOMAGNETIC FIELD IS EXPECTED TO REAMIN AT QUIET TO UNSETTLED  
LEVELS OVER THE NEAR TERM.

III. EVENT PROBABILITIES 03 JUN-05 JUN

CLASS M 70/70/70

CLASS X 20/20/30

PROTON 05/10/15

PCAF GREEN

IV. OTAWA 10.7 CM FLUX

OBSERVED 02 JUN 131

PREDICTED 03 JUN-05 JUN 135/140/150

90 DAY MEAN 02 JUN 170

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 JUN 023/026

ESTIMATED AFR/AP 02 JUN 015/022

PREDICTED AFR/AP 03 JUN-05 JUN 008/010-008/010-008/010

SOLTERWARN

BT

HFUS 1 BOU 021300  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 153A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 02 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH ONLY  
C-CLASS EVENTS REPORTED IN THE PAST 24 HOURS. SMALL REGION 3759  
(N08E53) AND SPOTLESS REGION 3754 (S04E12) CONTRIBUTED MOST OF  
THE FLARES. BOTH REGIONS ARE IN PLAGE AREAS WHICH WERE ACTIVE  
ON PREVIOUS ROTATIONS AND THEY COULD BEGIN TO DEVELOP RAPIDLY  
ALTHOUGH THEY ARE NOT GROWING AT THIS TIME. NEW REGION 3763  
(S09E82) IS PRODUCING MINOR SURGE ACTIVITY AS IT ROTATES AROUND  
THE LIMB. THE FIRST INDICATIONS ARE THIS IS A LARGE AND  
POSSIBLY MODERATELY ACTIVE REGION. SMALL NEW REGION 3762  
(N19E61) WAS ALSO NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW WITH THE POSSIBILITY OF INCREASED ACTIVITY FROM  
REGION 3763 AS IT ROTATES ONTO THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN ACTIVE DURING THE PAST 24 HOURS BUT IS EXPECTED TO BE  
QUIET TO SLIGHTLY UNSETTLED FOR THE FORECAST PERIOD.

III. EVENT PROBABILITIES 03 JUN-05 JUN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 JUN 130

ESTIMATED 02 JUN 132

PREDICTED 03 JUN-05 JUN 135/140/142

90 DAY MEAN 01 JUN 171

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 MAY 035 AP 01 JUN 026

ESTIMATED AFR 01 JUN 015 AFR/AP 02 JUN 014/025

PREDICTED AFR/AP 03 JUN-05 JUN 003/010-008/010-008/010

SOLTERWARN

BT