

HFUS 3 ROU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO

SDF NUMBER 181B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 2200Z 30 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/1200Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. REGION 3180 (S15E08), WHICH RETAINED ITS WHITE LIGHT AND MAGNETIC COMPLEXITY, PRODUCED ONLY 2 MINOR C-CLASS SUBFLARES. TWO NEW REGIONS HAVE DEVELOPED ON THE DISK. THEY ARE 3185 (S16E24), NOW A D-TYPE GROUP, AND 3186 (S04E27) A B-TYPE GROUP. REGION 3178 (N15W01) HAS SHOWN CONSIDERABLE DECAY, BUT ALL OTHER REGIONS HAVE REMAINED MOSTLY STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE BASED ON THE FLARE POTENTIAL CONTAINED IN REGION 3180.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 9 HOURS. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE IN RESPONSE TO A WEAK NORTHERN CORONAL HOLE AND A SIGNIFICANT FLARE EARLY ON 29 JUNE.

III. EVENT PROBABILITIES 01 JULY - 03 JULY

CLASS M 80/65/50

CLASS X 15/10/05

PROTON 15/10/05

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 JUNE 173

PREDICTED 01-03 JULY 169/165/162

90-DAY MEAN 30 JUNE 192

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 JUNE 31/36

ESTIMATED AFR/AP 30 JUNE 12/12

PREDICTED AFR/AP 01-03 JULY 12/15 - 08/10 - 10/10

SOLTER/WARN

BT

HFUS 1 BOU 301300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 181A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 30 JUNE 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
29/1200Z TO 30/1200Z:

SOLAR ACTIVITY WAS LOW DURING THIS INTERVAL; HOWEVER, THE  
POTENTIAL FOR ENERGETIC ACTIVITY STILL EXIST. REGION 3180  
(S15E15) IS EXHIBITING FLUCTUATIONS AND POINT BRIGHTENINGS  
WHILE GROWING SLOWLY. REGION 3178 (N19W08) REMAINS A MOD-  
FRATE SIZE "D" TYPE SPOT GROUP, HAS NOT SHOWN MUCH ACTIVITY  
FOR THE PAST COUPLE OF DAYS BUT SUBTLE CHANGES BEGINNING TO  
OCCUR COULD SERVE TO RETURN THIS REGION TO AN ACTIVE STATE.  
REGIONS 3172 (S07E40) AND 3170 (N13W65) HAVE FAIRLY COMPLEX  
NEUTRAL LINES AND ALTHOUGH 3170 IS NEARING THE WEST LIMB,  
RECENT OBSERVATIONS INDICATE WHITE LIGHT GROWTH HAS RE-  
SUMED.

IB. SOLAR ACTIVITY FORECAST:

IN SPITE OF THE PRESENT LULL, ACTIVITY IS EXPECTED TO BE  
AT MODERATE LEVELS DURING THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD QUICKLY QUIETED DOWN FROM THE STORM  
CONDITIONS OF 29 JUN. SO FAR THIS ZULU DAY, QUIET TO UN-  
SETTLED CONDITIONS HAVE BEEN OBSERVED. GENERALLY UNSETTLED  
CONDITIONS SHOULD CONTINUE.

III. EVENT PROBABILITIES: 01 JUL - 03 JUL

CLASS M 90/90/90

CLASS X 20/20/20

PROTON 10/10/15

CAF YELLOW

IV. OTTAWA 10.7 FLUX

OBSERVED 29 JUN 183

ESTIMATED 30 JUN 180

PREDICTED 01-03 JUL 178/175/173

90 DAY MEAN 29 JUN 193

V. GEOMAGNETIC A INDICES

OBSERVED AFR 28 JUN 12 AP 29 JUN 36

ESTIMATED AFR 29 JUN 32 AFR/AP 30 JUN 10/10

PREDICTED AFR/AP 01-03 JUL 12/20 08/15 10/15

SOLTERWARN

BT