

HFUS 1 BOU 031300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 123A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 03 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 03/1200Z: SOLAR ACTIVITY WAS MODERATE DURING THE PAST 24 HOURS DUE TO A M2/1B EVENT FROM REGION 3717 (S07E56) WHICH OCCURRED AT 02/1513UT. MINOR CENTIMETRIC RADIO BURSTS ACCOMPANIED THE EVENT. A BRIGHT SURGE WAS OBSERVED AT 03/0807UT FROM SE22, MATERIAL WAS REPORTED OUT TO .2 RADII. THIS MAY BE THE RETURN OF OLD 3684 (S26 L=100) WHICH HAD ONE M-CLASS EVENT LAST ROTATION. REGION 3717 IS REPORTED TO BE A C-TYPE WITH PENUMBRA REPORTED ON TRAILER SPOTS, THE REGION IS NOW A BETA. REGION 3714 (S18W27) HAS SHOWN MINOR DECAY IN ITS CENTRAL PORTION. THE REST OF THE DISK IS REPORTED STABLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE GENERALLY LOW DURING THIS FORECAST PERIOD. REGION 3717 IS NOT EXPECTED TO REPEAT WITH M-CLASS ACTIVITY. REGION 3714 MAY PRODUCE ISOLATED M-CLASS ACTIVITY HOWEVER THE NEW AREA AT SE22 IS EXPECTED TO BE THE SITE OF ANY MAJOR ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT MINOR STORM LEVELS DURING THE PAST 24 HOURS. THE ACTIVITY IS BELIEVED TO BE CAUSED BY A SMALL CORONAL HOLE WHICH IS NOW LOCATED AT W45. THE FIELD IS EXPECTED TO CONTINUE ACTIVE UNTIL 06 MAY WHEN UNSETTLED CONDITIONS ARE EXPECTED TO RETURN FOR THE REST OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 04 MAY-06 MAY

CLASS M 30/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 MAY 145

ESTIMATED 03 MAY 145

PREDICTED 04 MAY-06 MAY 147/150/153

90 DAY MEAN 02 MAY 194

V. GEOMAGNETIC A INDICES

OBSERVED AFR 01 MAY 018 AP 02 MAY 032

ESTIMATED AFR 02 MAY 024 AFR/AP 03 MAY 023/040

PREDICTED AFR/AP 04 MAY-06 MAY 018/018-012/015-012/010

SOLTERWARN

BT

HFUS 3 BOU 032200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 123B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 03 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
03/1200Z TO 03/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THIS  
PERIOD. THE LARGEST EVENT WAS A C8/SB FROM REGION 3717 (S06E51)  
AT 1858Z. THIS REGION CONTINUES ITS GROWTH PATTERN WITH A DELTA  
CONFIGURATION HAVING FORMED IN THE TRAILING PORTION OF ITS  
STRUCTURE. REGION 3714 (S18W19) HAS BEGUN TO DECAY. HOWEVER, MT  
WILSON STILL HAS A DELTA IN THE CENTER STRUCTURE OF THE SUNSPOT  
GROUP. REGION 3718 (S16E30) HAS EMERGED ON THE DISK TODAY.  
REGIONS 3719 (S21E76) AND 3720 (N13E85) HAVE ROTATED ON TO THE  
DISK. REGION 3719 APPEARS TO BE AN EMERGING REGION WITH  
ENHANCED PLAGE AND SUBFLARE ACTIVITY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO RISE  
TO A MODERATE LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT MINOR STORM LEVEL. THE FIELD IS EXPECTED TO DIMINISH TO  
ACTIVE LEVELS DURING THE NEXT 24 HOURS AND TO UNSETTLED  
CONDITIONS DURING THE SUBSEQUENT 24 HOURS.

III. EVENT PROBABILITIES 04 MAY-06 MAY

CLASS M 30/40/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 03 MAY 145

PREDICTED 04 MAY-06 MAY 147/150/153

90 DAY MEAN 03 MAY 193

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 02 MAY 024/032

ESTIMATED AFR/AP 03 MAY 033/048

PREDICTED AFR/AP 04 MAY-06 MAY 018/018-012/015-012/010

SOLTERWARN

BT

HXUS BOU 032200

PREDM 03004 04005 05006

PREDX 00104 00105 00106

PREDP 00104 00105 00106

PCAFT 00104

TENCM 14704 15005 15306

AFRED 01804 01205 01206

AFAPF 01804 01505 01006

BT