

HFUS 1 BOU 281300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 1484

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 28 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
27/1200Z TO 28/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THIS
PERIOD. REGION 3753 (S04E29) HAD A M1 X-RAY FLARE AND CONTINUED
TO BE THE MOST ACTIVE REGION ON THE DISK. REGION 3751 (S20W48)
AND REGION 3752 (S15E35) HAVE CONTRIBUTED A FEW C-CLASS
SUBFLARES. REGIONS 3740 (N22W78) AND 3739 (N15W76) HAVE NOT
CONTRIBUTED ANY FLARES DURING THIS PERIOD. ALL OTHER REGIONS
HAVE BEEN QUIET. NO NEW REGIONS HAVE BEEN NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO
MODERATE. REGION 3753 IS THE PRIMARY CANDIDATE FOR M-CLASS
FLARES OF ALL THE REGIONS ON THE DISK.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN AT MINOR STORM LEVELS FOR THE PAST 36 HOURS. MINOR STORM
ACTIVITY SHOULD CONTINUE UNTIL EARLY 29 MAY AND THEN DECREASE
TO ACTIVE LEVELS.

III. EVENT PROBABILITIES 29 MAY-31 MAY

CLASS M 60/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MAY 171

ESTIMATED 28 MAY 170

PREDICTED 29 MAY-31 MAY 165/165/165

90 DAY MEAN 27 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 26 MAY 025 AP 27 MAY 047

ESTIMATED AFR 27 MAY 027 AFR/AP 28 MAY 030/050

PREDICTED AFR/AP 29 MAY-31 MAY 018/020-014/020-014/018

SOLTERWARN

BT

HFUS 3 BOU 282200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 148B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 28 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 28/1200Z TO 28/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 9 HOURS. REGION 3739 (N14W83) PRODUCED AN M3/SB FLARE AT 1707Z WHICH RESULTED IN SHORT WAVE FADES OUT TO 15 MHZ. DELAYED FLARE REPORTS HAVE ASSOCIATED 3739 WITH A PREVIOUSLY UNIDENTIFIED M1 EVENT AT 0306Z, AND LOOPS WERE SEEN AT NW15 BEGINNING AT 1830Z AS 3739 NEARS WEST LIMB PASSAGE. REGION 3753 (S04E23) ALSO PRODUCED AN M-EVENT THIS PERIOD, AN M1/1B FLARE MAXING AT 1530Z. REGION 3753 HAS DEVELOPED A DELTA MAGNETIC CONFIGURATION IN ITS MIDSECTION, AND HAS PRODUCED C-CLASS (OR BETTER) EVENTS EVERY FEW HOURS ALL DAY. REGION 3751 (S21W54) HAS GROWN IN WHITE LIGHT AND MAGNETIC COMPLEXITY AND IS EXHIBITING AN ARCH FILAMENT SYSTEM. NEW REGION 3754 (S04E67), THE RETURN OF OLD REGION 3717, IS AN AREA OF BRIGHT PLAGE CONTAINING AN A-TYPE SPOT. AN ACTIVE PROMINENCE AT NW22 ERUPTED BETWEEN 1318-1706 Z.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. REGION 3753 IS SHOWING A PROPENSITY FOR M-CLASS EVENTS, AND AN M-CLASS LIMB EVENT IS STILL POSSIBLE FROM REGION 3739.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS FOR THE PAST 9 HOURS. THIS ACTIVITY, WHICH IS THE RESULT OF A HIGH SPEED SOLAR WIND STREAM, IS EXPECTED TO DECLINE TO ACTIVE CONDITIONS ON 29 MAY AND THEN TO PREDOMINANTLY UNSETTLED CONDITIONS FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 29 MAY-31 MAY

CLASS M 60/60/60

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 28 MAY 171

PREDICTED 29 MAY-31 MAY 165/160/160

90 DAY MEAN 28 MAY 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 27 MAY 033/047

ESTIMATED AFR/AP 28 MAY 035/050

PREDICTED AFR/AP 29 MAY-31 MAY 018/030-014/020-014/013

SOLTERWARN

BT

HXUS BOU 282200

PREDM 06029 06030 06031

PREDX 00129 00130 00131

PREDP 00129 00130 00131

PCAFT 00129

TENCM 16529 16030 16031

AFRED 01829 01430 01431

AFAPP 03029 02030 01831

PT