

BT

HFUS 1 BOU 271300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 147A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 27 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
26/1200Z TO 27/1200Z: SOLAR ACTIVITY HAS BEEN LOW. X-RAY FLARE
ACTIVITY HAS BEEN LIMITED TO C CLASS FLARES. REGION 3739
(N15W61) CONTINUES TO GROW IN ITS TRAILER PORTION. REGION 3740
(N22W64) CONTINUES TO DECAY. REGION 3751 (S20W35), 3748
(S19W10), 3752 (S15E50), AND 3753 (S03E43) ARE ALL GROWING WITH
SPOT CLASSIFICATIONS OF DSO, DSO, CSO AND CSO, RESPECTIVELY.
ALL OF THESE FOUR REGIONS HAVE BETA MAGNETIC CONFIGURATIONS.
THE OTHER REGIONS ON THE DISK ARE NONPRODUCTIVE. REGION 3753 IS
THE ONLY REGION WHICH WAS NUMBERED IN THE LAST 24 HOURS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL BE LOW TO
MODERATE. REGIONS 3739, 3740, 3751 AND 3752 ARE THE POSSIBLE
SOURCES OF MODERATE LEVEL ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN ACTIVE AND SHOULD REMAIN AT ACTIVE TO MINOR STORM LEVELS
FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 28 MAY-30 MAY

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 154

ESTIMATED 27 MAY 170

PREDICTED 28 MAY-30 MAY 165/160/155

90 DAY MEAN 26 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 25 MAY 009 AP 26 MAY 023

ESTIMATED AFR 26 MAY 019 AFR/AP 27 MAY 030/038

PREDICTED AFR/AP 28 MAY-30 MAY 030/030-018/020-016/020

SOLTERWARN

BT

HXUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 147B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 27/1200Z TO 27/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. REGIONS 3751 (S20W41), 3752 (S14E41), AND 3753 (S03E37) HAVE EACH PRODUCED C-CLASS SUBFLARES WITH REGION 3753 BEING THE MOST ACTIVE. THERE HAVE BEEN NO FLARES FROM THE 3740/3739 (N22W70/N15W68) COMPLEX FOR THE PAST 12 HOURS. PATCHES OF PLAGE ARE ROUNDING THE SOUTHEAST LIMB (SE04) NEAR THE LOCATION OF RETURNING REGION 3717 WHICH PRODUCED M-CLASS FLARES LAST ROTATION.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. HOWEVER, REGIONS 3751, 3752, AND 3753 SHOULD BE MONITORED FOR GROWTH. THE RETURNING REGION ON THE SOUTHEAST LIMB MAY HAVE M-CLASS FLARE POTENTIAL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT ACTIVE TO MINOR STORM LEVELS FOR THE PAST 9 HOURS. THE CURRENT DISTURBANCE IS DUE TO A HIGH-SPEED SOLAR WIND STREAM FROM A LARGE EQUATORIAL NEGATIVE-POLARITY CORONAL HOLE. SOLAR WIND VELOCITIES HAVE BEEN IN EXCESS OF 700 KM/S DURING THIS REPORTING PERIOD, AND THE INTERPLANETARY FIELD HAS BEEN PREDOMINANTLY SOUTHWARD. THIS STREAM IS EXPECTED TO INFLUENCE THE GEOMAGNETIC FIELD THROUGH 29 MAY WITH GEOMAGNETIC CONDITIONS BECOMING UNSETTLED ON 30 MAY.

III. EVENT PROBABILITIES 28 MAY-30 MAY

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 MAY 171

PREDICTED 28 MAY-30 MAY 165/160/155

90 DAY MEAN 27 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 MAY 025/023

ESTIMATED AFR/AP 27 MAY 027/045

PREDICTED AFR/AP 28 MAY-30 MAY 030/030-018/020-014/020

SOLTERWARN

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HXUS BOU 272200

PREDM 05028 05029 05030

PREDX 00128 00129 00130

PRFDP 00128 00129 00130

PCAFF 00128

TENCM 16528 16029 15530

AFRED 03028 01829 01430

AFAPF 03028 02029 02030

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