

HFUS 1 BOU 251300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 145A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 25 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/1200Z TO 25/1200Z: SOLAR ACTIVITY HAS BEEN LOW. REGIONS 3739 (N15W34), 3740 (N21W36) AND 3748 (S20E18) HAVE ALL HAD C CLASS X-RAY FLARES. REGION 3740 IS DECAYING NOTICEABLY AND REGION 3739 IS GROWING. THE TWO REGIONS SHOW CLOSE ASSOCIATION INCLUDING AN ARCH FILAMENT CONNECTING THE LEADER SPOTS. REGION 3748 HAS BECOME MORE COMPLEX IN STRUCTURE. ALL OTHER REGIONS ARE NONPRODUCTIVE. NO NEW REGIONS HAVE BEEN NUMBERED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL BE LOW TO MODERATE. REGIONS 3739 AND 3740 COULD BECOME THE SOURCES OF MODERATE ACTIVITY.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. IT SHOULD BECOME UNSETTLED ON THE SECOND DAY OF THE FORECAST PERIOD FOLLOWED BY ACTIVE CONDITIONS ON THE LAST DAY OF THE PERIOD.

III. EVENT PROBABILITIES 26 MAY-28 MAY

CLASS M 65/55/55

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 24 MAY 147

ESTIMATED 25 MAY 144

PREDICTED 26 MAY-28 MAY 141/140/137

90 DAY MEAN 24 MAY 177

V. GEOMAGNETIC A INDICES

OBSERVED AFR 23 MAY 003 AP 24 MAY 007

ESTIMATED AFR 24 MAY 005 AFR/AP 25 MAY 007/008

PREDICTED AFR/AP 26 MAY-28 MAY 007/015-013/020-022/020

SOLTERWARN

BT

HFUS 3 BOU 252200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 145B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 25 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
25/1200Z TO 25/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9
HOURS. REGION 3740 (N22W44) CONTINUES TO DECAY IN SPOT COUNT
AND MAGNETIC COMPLEXITY. HOWEVER ITS COMPANION, REGION 3739
(N16W41), HAS SHOWN RAPID GROWTH AND THE TWO REGIONS ARE
INTERACTING AND PRODUCING NEAR-CONTINUAL SUBFLARES. NUMEROUS
OTHER SUBFLARES HAVE BEEN REPORTED THIS PERIOD INCLUDING TWO
EACH FROM NEW REGIONS 3751 (S19W16) AND 3752 (S15E70). BOTH OF
THESE REGIONS ARE C-TYPE GROUPS. A BRIGHT SURGE ON THE EAST
LIMB (SE17) WAS OBSERVED BEGINNING AT 2003 UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE
LOW WITH THE POSSIBILITY OF ISOLATED M-CLASS FLARES FROM
REGIONS 3739 AND 3740..

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN SLIGHTLY UNSETTLED FOR THE PAST 9 HOURS. THE FIELD IS
EXPECTED TO BE UNSETTLED TO QUIET TOMORROW, BECOMING ACTIVE ON
27 MAY OWING TO RECURRENT EFFECTS OF A LARGE EQUATORIAL CORONAL
HOLE THAT WAS AT CENTER DISK ON 24 MAY. ACTIVE CONDITIONS ARE
THEN EXPECTED TO PERSIST FOR THE NEXT SEVERAL DAYS.

III. EVENT PROBABILITIES 26 MAY-28 MAY.

CLASS M 50/45/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MAY 142

PREDICTED 26 MAY-28 MAY 141/140/137

90 DAY MEAN 25 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 MAY 005/007

ESTIMATED AFR/AP 25 MAY 007/013

PREDICTED AFR/AP 26 MAY-28 MAY 010/015-018/020-022/020

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HXUS BOU 252200

PREDM 05026 04527 04028

PREDX 00126 00127 00128

PREDP 00126 00127 00128

PCAF 00126

TENCM 14126 14027 13723

AFRED 01026 01827 02228

AFAPF 01526 02027 02023

BT