

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 2008 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

SOLTERWARN

BT

HXUS BOU 252200

PREDM 05026 04527 04028

PREDX 00126 00127 00128

PREDP 00126 00127 00128

PCAFT 00126

TENCM 14126 14027 13723

AFRED 01026 01827 02228

AFAPF 01526 02027 02023

BT