

HFUS 1 BOU 261300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 146A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 26 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 25/1200Z TO 26/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THIS PERIOD, DUE TO A M1/1B FLARE THAT OCCURED IN REGION 3740 (N22W51). OTHERWISE, FLARE ACTIVITY HAS ONLY BEEN C-LEVEL. REGION 3740 CONTINUES TO DECAY, WHILE 3739 (N16W48) HAS GROWN. REGION 3751 (S19W23) HAS SHOWN RAPID GROWTH SINCE IT APPEARED ON THE DISK. REGIONS 3748 (S19E03) AND 3752 (S15E63) HAVE BOTH PRODUCED SUBFLARES BUT, AT THIS TIME, DO NOT APPEAR TO BE CAPABLE OF MAJOR FLARE ACTIVITY. NEW REGIONS REPORTED THIS PERIOD ARE 3753 (S21W21), 3754 (S06E59) AND 3755 (S18E60). THE REGIONS ARE D, C, AND H CLASSED REGIONS, RESPECTIVELY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE LOW TO MODERATE FOR THE FORECAST PERIOD. THE MODERATE LEVEL OF ACTIVITY IS DEPENDENT ON THE DEVELOPMENTS IN THE 3739-3740 COMPLEX AND THE CONTINUATION OF THE RAPID GROWTH IN REGION 3751.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED AND SHOULD BE UNSETTLED TODAY. ACTIVE CONDITIONS SHOULD COMMENCE ON 27 MAY AND CONTINUE THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 MAY-29 MAY

CLASS M 60/50/50

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 25 MAY 142

ESTIMATED 26 MAY 141

PREDICTED 27 MAY-29 MAY 138/135/132

90 DAY MEAN 25 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 24 MAY 005 AP 25 MAY 008

ESTIMATED AFR 25 MAY 007 AFR/AP 26 MAY 010/015

PREDICTED AFR/AP 27 MAY-29 MAY 018/020-022/020-018/020

SOLTERWARN

BT

HFUS 3 BOU 262200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 146B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 26 MAY 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/1200Z TO 26/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. HOWEVER, SUBFLARES WERE REPORTED FROM 6 OF THE 8 SPOTTED REGIONS ON THE DISK. THE LARGEST EVENTS WERE A C4/SF FROM 3739 (N15W55) AND A C4/SB FROM 3751 (S20W23). REGION 3751 HAS BEEN AT OR NEAR FLARE INTENSITY THROUGHOUT THIS PERIOD AND A 2N OPTICAL FLARE WAS REPORTED MAXING AT 1810Z. REGION 3740 (N22W58) AND 3739 HAVE BOTH DECAYED IN WHITE-LIGHT BUT HAVE REGAINED MAGNETIC COMPLEXITY. THERE IS SURGING ON THE SOUTHEAST LIMB AT SE08 AND SE01. NEW REGIONS REPORTED ON SDF 146A WERE INCORRECT. ONE NEW REGION, 3753 (S03E50), A C-TYPE GROUP, WAS ADDED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. REGIONS 3740 AND 3739 PROVIDE THE BEST PROBABILITY FOR SIGNIFICANT FLARES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BECOME ACTIVE DURING THE PAST NINE HOURS, REACHING MINOR STORM LEVELS FROM 15-18Z. THIS ACTIVITY IS EXPECTED TO PERSIST FOR THE REMAINDER OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 27 MAY-29 MAY

CLASS M 60/50/50

CLASS X 05/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 26 MAY 154

PREDICTED 27 MAY-29 MAY 150/149/147

90 DAY MEAN 26 MAY 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 25 MAY 009/008

ESTIMATED AFR/AP 26 MAY 019/025

PREDICTED AFR/AP 27 MAY-29 MAY 018/020-022/020-018/020

SOLTERWARN

BT