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HFUS 1 BOU 191300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 170A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 19 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 19/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE THIS PERIOD DUE TO A M1/SB EVENT FROM REGION 3776 (N13W12) AT 18/2135UT, ONLY MINOR RADIO WAS REPORTED WITH THIS EVENT. REGION 3776 CONTINUES TO EXHIBIT SLOW DECAY AND RELAXED MAGNETIC GRADIENTS. REGION 3781 (N16E25) CONTINUES TO GROW SLOWLY AND IS REPORTED TO BE A BETA GAMMA GROUP. ALL OTHER REGIONS ARE REPORTED TO HAVE BEEN STABLE DURING THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE DURING THIS FORECAST PERIOD. EVEN THOUGH REGION 3776 CONTINUES TO DECAY IT'S SIZE AND CONTINUED MAGNETIC COMPLEXITY MAKES IT A PRIME POTENTIAL SOURCE OF M-CLASS ACTIVITY WITH A CHANCE FOR AN ISOLATED X-CLASS EVENT DURING THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE NEXT 48 HOURS THEN ACTIVE CONDITIONS, DUE TO A LARGE CORONAL HOLE. FOR THE LAST 24 HOURS OF THE FORECAST.

III. EVENT PROBABILITIES 20 JUN-22 JUN

CLASS M 70/60/50

CLASS X 10/10/10

PROTON 05/05/05

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JUN 201

ESTIMATED 19 JUN 195

PREDICTED 20 JUN-22 JUN 190/190/185

90 DAY MEAN 18 JUN 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 17 JUN 008 AP 18 JUN 011

ESTIMATED AFR 18 JUN 010 AFR/AP 19 JUN 010/015

PREDICTED AFR/AP 20 JUN-22 JUN 010/015-010/015-025/030

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HFUS 3 BOU 192200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 170B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 19 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 19/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. A PROLONGED FLARE, WHICH BEGAN AT 1919Z NORTH OF THE LEADER OF REGION 3776 (N13W18), REACHED A M2/2B CATEGORY AT 2000Z (X-RAY MAX). STRONG SHORT WAVE FADE THROUGH 15 MHZ OCCURRED BUT RADIO WAS WEAK WITH 73 FU OCCURRING AT 2695 MHZ. HOWEVER, TYPE II/IV DEKAMETRIC BURST DID ACCOMPANY THIS FLARE. REGION 3776 ALSO PRODUCED A C8/1B AT 1721Z (X-RAY MAX). A GENERAL SLOW DECAY CONTINUES IN REGION 3776 WITH SOME RESTRUCTURING OCCURRING NORTH OF THE LARGE LEADER, WHICH WAS THE SITE OF THE 2B FLARE. REGIONS 3781 (N16E18) AND 3782 (N15E51) HAVE BOTH PRODUCED CLASS C/SUBFLARE EVENTS. REGION 3781 HAS HAD STEADY GROWTH DURING THE PAST 48 HOURS. IT IS NOW CAPABLE OF PRODUCING CLASS M FLARES. REGION 3782 IS ALSO GROWING, BUT AT A SLOW PACE. REGION 3784 (N02W51) WAS ADDED TODAY AS A SMALL UNIPOLAR GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE. REGION 3776 STILL RETAINS THE POTENTIAL FOR ISOLATED CLASS X ACTIVITY OVER THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. THESE CONDITIONS ARE EXPECTED TO CONTINUE UNTIL THE LATTER PART OF 21 JUNE WHEN ACTIVE TO MINOR STORM CONDITIONS ARE EXPECTED AS A RESULT OF THE FAVORABLE LOCATION OF REGION 3776 AND A LARGE CORONAL HOLE.

III. EVENT PROBABILITIES 20 JUN-22 JUN

CLASS M	70/60/50
CLASS X	10/10/10
PROTON	05/05/05
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	19 JUN 201
PREDICTED	20 JUN-22 JUN 198/196/194
90 DAY MEAN	19 JUN 165

V. GEOMAGNETIC A INDICES

OBSERVED	AFR/AP 18 JUN 010/011
ESTIMATED	AFR/AP 19 JUN 015/015
PREDICTED	AFR/AP 20 JUN-22 JUN 010/015-010/015-025/030

SOLTERWARN
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