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HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 163A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 17 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVITY REGIONS AND ACTIVITY FROM 16/1200Z TO 17/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. REGIONS 3776 (N12E13) AND 3780 (S19E41) PRODUCED A TOTAL OF FIVE M-CLASS EVENTS THE LARGEST A M5/2B FROM 3776 OCCURRED AT 17/1049UT WITH MAJOR MICROWAVE RADIO BURSTS RECORDED WITH THE EVENT, 620 FLUX UNITS OBSERVED AT 2695MHZ AND A CASTELLI U BURST SIGNATURE WAS REPORTED HOWEVER NO TYPE II/IV SWEEPS HAVE BEEN REPORTED. SHORT WAVE FADE UP TO 22MHZ ALSO WAS OBSERVED. REGION 3780 HAS EXHIBITED LITTLE CHANGE THIS PERIOD. REGION 3776 IS REPORTED TO BE UNDER GOING RESTRUCTURING WITH SOME BREAK UP IN ITS CENTRAL PORTION, HOWEVER IT DOES REMAIN MAGNETICALLY COMPLEX. REGION 3781 (N16E55) HAS GROWN RAPIDLY AND IS NOW A D-TYPE GROUP.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE MODERATE. WITH REGION 3776 UNDER GOING REORGANIZATION ITS POTENTIAL FOR X-CLASS ACTIVITY HAS BEEN SOMEWHAT DIMINISHED HOWEVER AN ISOLATED X-CLASS EVENT FROM THIS REGION REMAINS A DEFINITE POSSIBILITY. REGION 3780 IS EXPECTED TO PRODUCE ONLY SMALL M-CLASS ACTIVITY DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED THIS PERIOD. THE FIELD IS EXPECTED TO BE ACTIVE DURING THIS FORECAST PERIOD DUE TO THE INFLUENCE OF RECENT MAJOR SOLAR EVENTS.

III. EVENT PROBABILITIES 18 JUN-20 JUN

CLASS M 99/99/99

CLASS X 40/30/25

PROTON 35/25/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JUN 209

ESTIMATED 17 JUN 195

PREDICTED 18 JUN-20 JUN 195/190/190

90 DAY MEAN 16 JUN 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR 15 JUN 029 AP 16 JUN 012

ESTIMATED AFR 16 JUN 012 AFR/AP 17 JUN 011/014

PREDICTED AFR/AP 18 JUN-20 JUN 025/020-015/015-015/015

SOLTERWARN

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HFUS 3 BOU 172200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 168B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 17 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 17/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3776 (N12E09) PRODUCED AN M1/SB AT 17/1340UT. MINOR RADIO BURSTS AND SHORT WAVE FADES ACCOMPANIED THIS FLARE. A MODERATE DECAY TREND IS BECOMING APPARENT IN 3776 AND OVERALL REGION STRUCTURE SHOWS ONLY MINOR CHANGES. HIGH MAGNETIC GRADIENTS CONTINUE IN THE CENTRAL PORTION OF 3776 ALONG A VERY LONG NEUTRAL LINE. REGION 3780 (S20E36) HAS PRODUCED ONLY TWO SUBFLARES AND THE DELTA CONFIGURATION HERE HAS FADED. REGION 3781 (N15E46) IS GROWING BUT NO FLARE ACTIVITY HAS BEEN OBSERVED. TWO SMALL REGIONS HAVE BEEN NUMBERED - 3782 (N16E72) AND 3783 (S18W58).

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE AT MODERATE LEVELS WITH A MAJOR GEOEFFECTIVE FLARE FROM REGION 3776 LIKELY DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. ACTIVE CONDITIONS ARE FORECAST FOR THE NEXT THREE DAYS DUE TO PAST FLARE ACTIVITY FROM REGION 3776.

III. EVENT PROBABILITIES 18 JUN-20 JUN

CLASS M 99/99/99

CLASS X 40/30/25

PROTON 35/25/20

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 JUN 202

PREDICTED 18 JUN-20 JUN 200/195/190

90 DAY MEAN 17 JUN 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 16 JUN 011/012

ESTIMATED AFR/AP 17 JUN 010/015

PREDICTED AFR/AP 18 JUN-20 JUN 025/020-015/015-015/015

SOLTERWARN

BT