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HFUS 1 BOU 171300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 168A

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 CASTELLIAN 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 IS 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 UNSETLED 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 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

BT

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 ACCCOMPANIED 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 UNSETLED. 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

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