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HFUS 1 BOU 161300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 167A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 16 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
15/1200Z TO 16/1200Z: SOLAR ACTIVITY HAS BEEN HIGH. REGION
3780 (S18E57), ALTHOUGH A SMALL REGION, PRODUCED AN X 1/2B FLARE
WITH MAXIMUM OCCURRING AT 15/1514Z. ALL REMAINING MAJOR
ACTIVITY OCCURRED IN REGION 3776 (N13E26), THE LARGEST AND MOST
RECENT BEING AN X2/2B FLARE AT 16/0216Z MAXIMUM. MODEST AMOUNTS
OF CENTIMETRIC RADIATION ACCOMPANIED THE MAJOR EVENTS AND TYPE
II, TYPE IV EMISSION WAS OBSERVED WITH THE EVENT IN REGION 3780.
INCREASED AREA AND SPOT NUMBER ARE REPORTED IN REGION 3780. REGION
3776 HAS ADDITIONAL TRAILER SPOTS REPORTED IN RECENT HOURS, AND
IS ONCE AGAIN PLAGE ENHANCED AND FLUCTUATING SINCE THE X2 FLARE.
BOTH REGIONS CONTAIN MAGNETIC DELTAS, SEVERAL ARE REPORTED IN
REGION 3776. BOTH REGIONS APPEAR CAPABLE OF MAJOR ACTIVITY. THE
FILAMENT WHICH LAY BETWEEN W40 AND W70 DISAPPEARED IN THE TIME
PERIOD 16/0020 TO 16/0145Z. ACTIVE SURGING AT SE22 INDICATES
THE PROBABLE RETURN OF OLD 3748, A REGION SHOWING GROWTH AND
INCREASED ACTIVITY WHILE DEPARTING DURING LAST ROTATION. REMAINING
REGIONS APPEAR STABLE AND QUIET.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN
HIGH. MAJOR FLARES ARE LIKELY FROM REGION 3776, WHILE GROWTH IN
REGION 3780 SUGGESTS A POSSIBLE INCREASE IN ACTIVITY THERE ALSO.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD IS
EXPECTED TO SHOW A TREND TO LOW UNSETTLED CONDITIONS EARLY IN
THE PERIOD. ON 18 JUNE IT IS EXPECTED TO COME UNDER THE IN-
FLUENCE OF RECENT MAJOR SOLAR ACTIVITY AND RETURN TO ACTIVE
LEVELS.

III. EVENT PROBABILITIES 17 JUNE - 19 JUNE

CLASS M 99/99/99

CLASS X 70/70/70

PROTO N 45/50/55

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 JUN 229

ESTIMATED 16 JUN 220

PREDICTED 17-19 JUN 220/220/224

90 DAY MEAN 15 JUN 166

V. GEO MAGNETIC A INDICES

OBSERVED AFR 14 JUN 030 AP 15 JUN 029

ESTIMATED AFR 15 JUN 026 AFR/AP 16 JUN 009/015

PREDICTED AFR/AP 17-19 JUN 011/015 - 025/020 - 015/015

SOLTERWARN

BT

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 167B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3780 (S19E49) PRODUCED AN M3/1B AT 16/2040UT WITH MINOR CM BURSTS AND A WEAK TYPE II REPORTED. THIS REGION NOW APPEARS AS A MODERATE CLASS D GROUP WHOSE DELTA CONFIGURATION HAS WEAKENED. REGION 3776 (N13E22) PRODUCED A C7/SB AT 16/1644UT. THE LARGE FILAMENT NORTH OF THIS REGION HAS BEEN QUITE ACTIVE LATELY BUT HAS NOT ERUPTED. THIS REGION STILL DISPLAYS SOME EMERGING FLUX BUT MAGNETIC DATA INDICATE A NEARLY STATIC NEUTRAL LINE CONFIGURATION. THE PLAGE AREA AND INTENSITY IN REGION 3776 APPEAR TO HAVE DECREASED. SMALL REGION 3781 (N16E63) WAS NUMBERED TODAY AND AN AREA OF SURGING IS VISIBLE AT NE16.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD RESUME GENERALLY HIGH LEVELS. REGION 3776 REMAINS A POTENT FLARE PRODUCING REGION HOWEVER THE FREQUENCY OF CLASS X FLARES SHOULD DECREASE DUE TO THE RECENT STABILIZATION OF THE MAGNETIC FIELD. MODERATE FLARES ARE EXPECTED TO CONTINUE FROM 3780. NO SIGNIFICANT ACTIVE REGIONS ARE EXPECTED TO RETURN DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD SHOULD REMAIN UNSETTLED UNTIL 18 JUNE WHEN ACTIVE CONDITIONS SHOULD BEGIN AND CONTINUE THROUGH 19 JUNE. REGION 3776 IS MOVING NEAR CENTRAL MERIDIAN AND SHOULD ANOTHER MAJOR FLARE OCCUR, STORM CONDITIONS COULD BEGIN LATE IN THE PERIOD.

III. EVENT PROBABILITIES 17 JUN-19 JUN

CLASS M 99/99/99

CLASS X 50/50/50

PROTON 45/50/50

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 JUN 209

PREDICTED 17 JUN-19 JUN 210/214/218

90 DAY MEAN 16 JUN 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 JUN 029/029

ESTIMATED AFR/AP 16 JUN 012/015

PREDICTED AFR/AP 17 JUN-19 JUN 011/015-025/020-015/015

SOLTERWARN

BT