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HFUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 165A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 JUN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
13/1200Z TO 14/1200Z: SOLAR ACTIVITY WAS AGAIN AT A HIGH LEVEL.  
AT LEAST SEVEN M AND ONE X FLARE HAVE BEEN OBSERVED OVER THE  
PAST 24 HOURS. THE X FLARE BEGAN AT 14/0620Z AND WAS  
COINCIDENT WITH OPTICAL FLARES IN REGION 3763 (S10 W81), A 2B  
MAX AT 14/0626Z AND IN REGION 3776 (N13 E56), A 1B MAX AT  
14/0625Z. THIS FLARE WAS GENERALLY WEAK IN RADIO, NO TYPE II OR  
IV REPORTED, ALTHO A BURST OF 1000 FLUX UNITS WAS OBSERVED AT  
10 CM. REGION 3776 HAS QUICKLY DOMINATED THE DISK WITH AN FKC  
SPOT GROUP WITH AN AREA OF OVER 3000 MILLIONTHS.

RESTRUCTURING CONTINUES TO BE REPORTED IN REGION 3776 WHILE  
DECAY IS REPORTED IN 3763. THIS DECAY IS BEING ACCOMPANIED BY  
MANY FLARES AND SOMETIMES SPECTACULAR EJECTA. REGION 3770 (S18  
W27) HAS ONLY PRODUCED MINOR FLARE ACTIVITY BUT ITS FILAMENT  
RUNNING TO THE NORTH HAS BEEN ACTIVE. SURGES ARE AGAIN BEING  
REPORTED ON THE EAST LIMB THIS TIME NEAR S2C.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A  
HIGH LEVEL THRU THE FORECAST PERIOD. MOST OF THE ENERGETIC  
ACTIVITY IS EXPECTED FROM 3776 WITH CONTRIBUTIONS FROM 3763 AND  
3770. REGION 3776 IS CAPABLE OF PRODUCING MAJOR GEO-EFFECTIVE  
EVENTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS  
AT ACTIVE TO MINOR STORM LEVELS THRU MOST OF THE PAST 24 HOURS.  
RECENT FLARE ACTIVITY AND THE EQUATORIAL CORONAL HOLE ARE  
EXPECTED TO KEEP THE FIELD ACTIVE THRU THE FORECAST PERIOD. A  
GOOD CHANCE EXISTS FOR A PROTON EVENT FROM EITHER DEPARTING  
REGION 3763 OR FROM 3776.

PROTON FLUXES AT SATELLITE ALTITUDES REMAIN ENHANCED BUT BELOW  
EVENT THRESHOLDS.

III. EVENT PROBABILITIES 15 JUN-17 JUN

CLASS M 99/99/99

CLASS X 60/60/60

PROTON 40/40/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JUN 233

ESTIMATED 14 JUN 230

PREDICTED 15 JUN-17 JUN 226/220/208

90 DAY MEAN 13 JUN 166

V. GEOMAGNETIC INDICES

OBSERVED AFR 12 JUN 036 AP 13 JUN 051

ESTIMATED AFR 13 JUN 037 AFR/AP 14 JUN 027/038

PREDICTED AFR/AP 15 JUN - 17 JUN 025/028- 025/025 - 205/015

SOLAR/WARN

BT

NNNNZSV

HFUS 3 BOU 142200  
FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLORADO  
SDF NUMBER 165B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY  
ISSUED 2200Z 14 JUNE 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE SINCE THE CLASS X1 WHICH BEGAN AT 0620Z. DURING THE PAST NINE HOURS, THREE LOW LEVEL CLASS M EVENTS HAVE OCCURRED; TWO HAVE EMANATED FROM REGION 3776 (N13E48) AND THE OTHER WAS ASSOCIATED WITH SEQUENTIAL FLARES IN REGIONS 3776, 3774 (N09E21), AND 3763 (S10W86). THE ACTIVITY FROM REGION 3763 HAS BEGUN TO DIMINISH DURING THIS PERIOD. THE OTHER DISK REGIONS PALE BY COMPARISON WITH REGION 3776. BESIDES CONTAINING SEVERAL DELTA CONFIGURATIONS, ITS AREA IS IN EXCESS OF 3,000 MILLIONTHS OF THE DISK. THIS IS THE LARGEST SUNSPOT GROUP AREA SINCE OCTOBER 1957. AT 1723Z, JACK HARVEY (KITT PEAK) REPORTED THE LARGE FILAMENT NORTH OF REGION 3776 HAD DISRUPTED AND WAS VISIBLE ABOVE THE LIMB. HOLLOMAN REPORTED THE MASS OF THE DISRUPTING FILAMENT MOVED NORTHWARD. REGION 3780 (S17E77) HAS ROTATED ON TO THE DISK WITH MINOR SURGING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN HIGH.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC STORM WHICH BEGAN ON 12 JUNE IS SLOWLY DIMINISHING. ACTIVE CONDITIONS ARE EXPECTED THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 15 JUNE - 17 JUNE

CLASS M 99/99/99

CLASS X 60/60/60

PROTON 40/40/40

PCAF YELLOW

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 JUNE 233

PREDICTED 15-17 JUNE 226/220/208

90-DAY MEAN 14 JUNE 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 JUNE 48/51

ESTIMATED AFR/AP 14 JUNE 27/34

PREDICTED AFR/AP 15-17 JUNE 25/28 - 25/25 - 25/15

SOLTERWARN

BT