HFUS 1 BOU 191300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 139A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 19 MAY 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 19/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE WITH AN M4/1B FLARE OCCURING IN REGION 3740(N22E43) AT 18/1221Z MAX. REMAINING ACTIVITY HAS CONSISTED OF C CLASS XRAY AND SUBFLARE OPTICAL EVENTS FROM REGIONS 3740, 3741(N24E56), 3742(S12E50), AND 3733(S12W32). REGION 3740 HAS GROWN SIGNIFICANTLY IN WHITE LIGHT AND HAS MAINTAINED NEAR FLARE-BRIGHT PLAGE CONTINUOUSLY IN RECENT HOURS. THE REGION EXHIBITS SOME MAGNETIC COMPLEXITY BUT IS YET TO BECOME AN IMPRESSIVE LOOKING REGION. REMAINING REGIONS APPEAR STABLE OR DECLINING.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE MOSTLY LOW WITH MODERATE CONDITIONS POSSIBLE IN CASE OF ENERGETIC FLARING FROM THE NORTHEASTERN COMPLEX OF REGIONS.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. ACTIVE TO NEAR ACTIVE LEVELS ARE EXPECTED TO CONTINUE FOR MUCH OF THE FORECAST PERIOD. ACTIVITY IS THOUGHT DUE TO CORONAL HOLE INFLUENCE FROM AN EQUATORIAL CORONAL HOLE TRANSIT OF CENTRAL MERIDIAN ON 14-15 MAY. A DISAPPEARING FILAMENT ON 17 MAY IS ALSO A POSSIBLE CONTRIBUTOR TO ACTIVITY IN THE PERIOD.
III. EVENT PROBABILITIES 20 MAY-22 MAY

CLASS M	35/40/40
CLASS X	01/01/01
PROTON	01/01/01
PCAF	GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED	18 MAY	143
ESTIMATED	19 MAY	146
PREDICTED	20 MAY-22 MAY	150/153/153
90 DAY MEAN	18 MAY	178

V. GEOMAGNETIC A INDICES

OBSERVED AFR	17 MAY	013	AP	18 MAY	022
ESTIMATED AFR	18 MAY	022	AFR/AP	19 MAY	014/018
PREDICTED AFR/AP	20 MAY-22 MAY	015/015-015/020-012/015			

SOLTERWARN
BT

HFUS 3 BOU 192200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 139B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 19 MAY 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 19/2100Z: SOLAR ACTIVITY CONTINUES LOW. REGION 3740 (N21E35) HAS BEEN THE MOST PRODUCTIVE REGION ON THE DISK, PRODUCING MOST OF THE C-CLASS X-RAY EVENTS OBSERVED. THE LARGEST WAS A LONG LASTING C4/SB AT 1817Z MAXIMUM. THIS REGION CONTINUES TO GROW AND DEVELOP IN MAGNETIC COMPLEXITY. ALMOST ALL OF TODAY'S EVENTS HAVE OCCURRED IN THE CENTRAL PORTION OF THE REGION. TWO NEW SPOTTED REGIONS WERE NUMBERED TODAY, REGION 3744 (S08W23) AND 3745 (N17E13). BOTH ARE SIMPLE A-TYPE GROUPS. NEW REGION 3746 (S16E18) IS A SPOTLESS PLAGE, BUT PRODUCED A C1/SF FLARE AT 0235Z MAXIMUM. THE REMAINING DISK REGIONS ARE QUIET.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, HOWEVER, REGION 3740 IS LIKELY TO PRODUCE A SMALL M-CLASS EVENT DURING THE NEXT 3 DAYS.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED TO PERSIST THROUGH THE FORECAST PERIOD.
III. EVENT PROBABILITIES 20 MAY-22 MAY
CLASS M 35/40/40
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 19 MAY 152
PREDICTED 20 MAY-22 MAY 155/157/160
90 DAY MEAN 19 MAY 178
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 18 MAY 019/022
ESTIMATED AFR/AP 19 MAY 015/016
PREDICTED AFR/AP 20 MAY-22 MAY 015/015-015/020-012/015
SOLTERWARN
BT

HXUS BOU 192200
PREDM 03520 04021 04022
PREDX 00120 00121 00122
PREDP 00120 00121 00122
PCAFT 00120
TENCM 15520 15721 16022
AFRED 01520 01521 01222
AFAPF 01520 02021 01522
BT