HFUS 1 BOU 161300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 289A
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 16 OCT 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
15/1200Z TO 16/1200Z: SOLAR ACTIVITY IS LOW. REGION 3950
(S09E33) APPEARS TO BE THE MOST LIKELY CANDIDATE FOR ANY
SIGNIFICANT ACTIVITY BUT IT TOO IS RATHER UNIMPRESSIVE.
HOWEVER, IT HAS DEVELOPED SOME SATELLITE SPOTS, IS THE LARGEST
REGION ON THE VISIBLE DISK AND IS PRODUCING OCCASIONAL
SUBFLARES. REGION 3949 (N03W43) WHICH GREW RAPIDLY YESTERDAY IS
NOW DECAYING. THE OTHER DISK REGIONS ARE SIMPLE AND STABLE.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW
BUT AN ISOLATED M EVENT IS POSSIBLE.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN QUIET TO UNSETTLED. THE FIELD SHOULD BE UNDER THE
INFLUENCE OF A CORONAL HOLE DURING THIS PERIOD RESULTING IN
UNSETTLED TO ACTIVE CONDITIONS.
III. EVENT PROBABILITIES 17 OCT-19 OCT
CLASS M 10/10/10
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 15 OCT 135
ESTIMATED 16 OCT 134
PREDICTED 17 OCT-19 OCT 130/128/128
90 DAY MEAN 15 OCT 161
V. GEOMAGNETIC A INDICES
OBSERVED AFR 14 OCT 021 AP 15 OCT 009
ESTIMATED AFR 15 OCT 007 AFR/AP 16 OCT 010/015
PREDICTED AFR/AP 17 OCT-19 OCT 015/015-015/015-015/020
SOLTERWARN
BT

HXUS BOU 161300
PREDM 01017 01018 01019
PREDX 00117 00118 00119
PREDP 00117 00118 00119
PCAFT 00117
TENCM 13017 12818 12819
AFRED 01517 01518 01519
AFAPF 01517 01518 02019
KKK 23243 32233 34332
BT

NNNZCVZGVZLVZOVZSV
NNNZCVZGVZLVZOUU
KBOU
HFUS 3 BOU 162200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 289B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 16 OCT 1982
IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 16/2100Z: SOLAR ACTIVITY REMAINED LOW DURING THE PERIOD. ONLY MINOR C-CLASS XRAY EVENTS WERE OBSERVED, THE LARGEST A C2/SN FLARE FROM REGION 3950 (S07E26) AT 1631Z MAXIMUM. THIS REGION IS NOW THE ONLY SIGNIFICANT GROUP ON THE DISK. IT HAS DEVELOPED A SMALL PENUMBRA ON ONE OF ITS SATELLITE SPOTS, AND HAS DISPLAYED PLAGE FLUCTUATIONS IN THIS AREA ALL DAY. IT IS ALSO IN THIS AREA WHERE THE STRONGEST MAGNETIC GRADIENT EXISTS. THE REMAINING DISK REGIONS HAVE SHOWN LITTLE CHANGE EXCEPT FOR REGION 3938 (N22W83) WHICH IS DECAYING RAPIDLY AS IT NEARS WEST LIMB. NO NEW REGIONS WERE NUMBERED TODAY, AND THE EAST LIMB HAS BEEN QUIET.
IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY WILL REMAIN LOW. THE PRESENT DISK REGIONS DO NOT HAVE THE CAPABILITY OF A LARGE EVENT. A GENERAL INCREASE IN SOLAR PARAMETERS IS EXPECTED ON THE THIRD DAY (10.7CM SOLAR RADIO FLUX AND SUNSPOT NUMBER) WHEN SEVERAL PRIOR ACTIVE REGIONS SHOULD BEGIN THEIR EAST LIMB ROTATION.
II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD BECAME ACTIVE EARLY IN THE PERIOD. SOLAR WIND MEASUREMENTS BY THE ISEE-3 SPACECRAFT INDICATE A SLIGHT INCREASE IN THE WINDS VELOCITY, POSSIBLY CORRELATING TO THE FAVORABLY LOCATED CORONAL HOLE. THESE ACTIVE CONDITIONS ARE EXPECTED TO PERSIST THROUGH THE NEXT THREE DAYS.
III. EVENT PROBABILITIES, 17 OCT-19 OCT
CLASS M 10/10/15
CLASS X 01/01/01
PROTON 01/01/01
PCAF GREEN
IV. OTTAWA 10.7 CM FLUX
OBSERVED 16 OCT 131
PREDICTED 17 OCT-19 OCT 130/128/132
90 DAY MEAN 16 OCT 160
V. GEOMAGNETIC A INDICES
OBSERVED AFR/AP 15 OCT 006/009
ESTIMATED AFR/AP 16 OCT 015/015
PREDICTED AFR/AP 17 OCT-19 OCT 015/015-015/015-015/020
SOLTERWARN
BT