

HFUS3 BOU 072200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 281

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 07 OCT 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/2100 TO 07/2100Z: SOLAR ACTIVITY CONTINUES AT A VERY LOW LEVEL. THERE HAS BEEN A SLIGHT INCREASE IN THE PLAGE AREA IN REGION 4582 (S06E20). THIS REGION ALSO CONTAINS ACTIVE DARK FILAMENTS, BUT NO SPOTS.

THE NORTHERN CORONAL HOLE MAY NOW CONNECT WITH THE EQUATORIAL CORONAL HOLE LOCATED NEAR W40. THERE MAY ALSO BE SMALL CORONAL HOLES NEAR S25E05 AND S35E90.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT VERY LOW LEVELS.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 06/2100Z TO 07/2100Z: THE GEOMAGNETIC FIELD WAS ACTIVE WITH PERIODS AT MINOR STORM LEVELS. THIS ACTIVITY IS BEING ATTRIBUTED TO THE EQUATORIAL CORONAL HOLE NOW LOCATED NEAR W40.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE LEVELS. SOME BRIEF PERIODS AT MINOR STORM LEVELS ARE POSSIBLE, ESPECIALLY EARLY IN THE FORECAST. THE FILAMENT WHICH DISAPPEARED NEAR REGION 4582 ON 5 OCT MAY CONTRIBUTE TO THE ACTIVITY LATE IN THE FORECAST.

III. EVENT PROBABILITIES 08 OCT-10 OCT

CLASS M 01/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 07 OCT 074

PREDICTED 08 OCT-10 OCT 074/074/074

90 DAY MEAN 07 OCT 081

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 06 OCT 019/019

ESTIMATED AFR/AP 07 OCT 025/038

PREDICTED AFR/AP 08 OCT-10 OCT 020/030-020/025-015/020

SOLTERWARN

BT