

HFUS 1 BOU 131300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDE NUMBER 013A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 13 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/1200Z TO 13/1200Z: SOLAR ACTIVITY HAS BEEN LOW. A SMALL NEW REGION 4062 (N10E62) ROTATED ONTO THE DISK AND PRODUCED THE LARGEST EVENTS OF THE DAY, A C3/SN AT 1912Z AND A C5/SN AT 2131Z. THE REGION HAS A SMALL SPOT GROUP AND DOES NOT APPEAR TO BE GROWING. REGION 4054 (S16W57) HAS DECAYED SIGNIFICANTLY SINCE YESTERDAY. TWO OTHER NEW REGIONS WERE NUMBERED 4061 (S08W31) AND 4060 (N05E69). ALL OTHER REGIONS ARE SMALL AND INACTIVE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. QUIET TO SLIGHTLY UNSETLED CONDITIONS ARE EXPECTED FOR THE FIRST TWO DAYS OF THE FORECAST PERIOD. ACTIVE CONDITIONS ARE EXPECTED BEGINNING ON 15 JAN FROM A LARGE TRANSEQUATORIAL CORONAL HOLE WHICH REACHED CENTRAL MERIDIAN ON 12 JAN.

III. EVENT PROBABILITIES 14 JAN-16 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 JAN 140

ESTIMATED 13 JAN 136

PREDICTED 14 JAN-16 JAN 130/126/122

90 DAY MEAN 12 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 JAN 011 AP 12 JAN 018

ESTIMATED AFR 12 JAN 015 AFR/AP 13 JAN 010/010

PREDICTED AFR/AP 14 JAN-16 JAN 003/008/015-015/015

SOLTERWARN

BT

HFUS 3 ROU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 013B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 13/2100Z: SOLAR ACTIVITY CONTINUED LOW DURING THIS PERIOD. THE LARGEST EVENT WAS A C4/2N HYDERFLARE WHICH ACCOMPANIED A DISAPPEARING FILAMENT, (S16W16), THE EVENT STARTED AT 1801UT WITH X-RAY MAXIMUM AT 1835UT THE EVENT ENDED AT 1938UT. NEW REGIONS TODAY 4063 (N06E45) C TYPE, 4064 (N09E73) H TYPE AND 4065 (S12E77) H TYPE. SOME MINOR SURGING HAS BEEN REPORTED ON THE LINE AT SE12 THEREFORE THERE MAY BE MORE OF 4065 TO COME. REGION 4054 (S17W62) HAS DECAYED TO A SMALL H TYPE. THE REST OF THE DISK LITTLE CHANGED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THIS FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED THIS PERIOD. THE FIELD IS EXPECTED TO CONTINUE UNSETTLED, WITH QUIET PERIODS DURING THE NEXT 48 HOURS. CONDITIONS SHOULD BE NEAR OR AT MINOR STORM LEVELS DURING THE LAST 24 HOURS OF THE FORECAST IN RESPONSE TO THE LARGE CORONAL WHICH PASSED CENTRAL MERIDIAN ON 12 JAN AND THE EFFECTS OF THE HYDERFLARE/DISAPPEARING FILAMENT OF TODAY.

III. EVENT PROBABILITIES 14 JAN-16 JAN

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 JAN 140

PREDICTED 14 JAN-16 JAN 140/133/132

90 DAY MEAN 13 JAN 176

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 JAN 015/018

ESTIMATED AFR/AP 13 JAN 008/010

PREDICTED AFR/AP 14 JAN-16 JAN 008/015-003/015-035/035

SOLTERWARN

BT