

HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 266A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 23 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/1200Z TO 23/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW. ONLY C CLASS SUBFLARES HAVE BEEN OBSERVED IN THE REPORT PERIOD. REGION 3910(N13W25) HAS BEEN THE SOURCE OF MOST ACTIVITY. THE REGION HAS DEVELOPED ADDITIONAL SPOTS IN RECENT HOURS. REGION 3917(N14E71) IS DISPLAYING MORE FEATURES AS IT MOVES ONTO THE DISK. IT REMAINS AN H TYPE GROUP WITH ONLY ONE SPOT REPORTED. EMERGING FLUX AND ARCH FILAMENTS HAVE BEEN OBSERVED IN RECENT HOURS AT N16E15. AN A TYPE SPOT GROUP IS NOW BEING REPORTED AT S10E75.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. NO CHANGE IS EXPECTED BEFORE THE RETURN OF ACTIVE LONGITUDES. OLD REGION 3886, IF IT RETURNS ACTIVE LATE ON 26 SEPT MAY BEGIN AN INCREASING TREND.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD IS SUBSIDING FROM MAJOR STORM LEVELS. MINOR STORM LEVELS ARE POSSIBLE INTERMITTENTLY WITH ACTIVE LEVELS EXPECTED TO PREVAIL THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 24 SEP-26 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 SEP 145

ESTIMATED 23 SEP 142

PREDICTED 24 SEP-26 SEP 140/140/142

90 DAY MEAN 22 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 SEP 053 AP 22 SEP 123

ESTIMATED AFR 22 SEP 078 AFR/AP 23 SEP 025/030

PREDICTED AFR/AP 24 SEP-26 SEP 022/020-018/020-012/015

SOLTERWARN

BT

HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 266B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9 HOURS. NEW REGION 3919 (S10E64), A B-TYPE GROUP WHICH ROTATED OVER THE EAST LIMB NEAR THE LOCATION OF OLD REGION 3879, PRODUCED THE LARGEST EVENT OF THIS PERIOD, A C-CLASS SUBFLARE MAXING AT 1407Z. REGION 3910 (N14W30) HAS BEEN REDEFINED TO INCLUDE REGION 3914. THIS EXTENDED PLAGE REGION IS OF BETA-GAMMA MAGNETIC COMPLEXITY. NEW REGION 3918 (N17E09) EMERGED ON THE DISK AS A B-TYPE GROUP. REGION 3913 (S09W21) HAS SHOWN SOME MINOR GROWTH THIS PERIOD. SURGING WAS REPORTED ON THE EAST LIMB NEAR NORTH 17.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED FOR THE PAST 9 HOURS. THE GEOMAGNETIC STORM WHICH BEGAN ON 21 SEPTEMBER HAS ENDED. FOR THE NEXT THREE DAYS GENERALLY UNSETTLED CONDITIONS ARE EXPECTED TO PREVAIL ALTHOUGH PERIODS AT ACTIVE LEVELS ARE LIKELY ESPECIALLY DURING LOCAL NIGHTTIME HOURS.

III. EVENT PROBABILITIES 24 SEP-26 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 SEP 152

PREDICTED 24 SEP-26 SEP 155/155/162

90 DAY MEAN 23 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 SEP 084/123

ESTIMATED AFR/AP 23 SEP 021/026

PREDICTED AFR/AP 24 SEP-26 SEP 015/015-012/020-012/020

SOLTERWARN

BT