

BT

HFUS 1 BOU 131300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 256A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 13 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/1200Z TO 13/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THE PAST 24 HOURS. THE LARGEST EVENT OBSERVED WAS A C7/1N AT 12/1534UT FROM REGION 3895 (S10W28) MINOR RADIO WAS REPORTED, 82 FLUX UNITS AT 2695MHZ, WITH THIS EVENT. REGION 3905 (S16E66) IS NOW A "D" TYPE GROUP WITH AN ARCH FILAMENT SYSTEM AND GROWTH IN BOTH WHITE LIGHT AND H-ALPHA THE MAGNETIC FIELD IS REPORTED TO BE A SIMPLE BETA, HOWEVER LIMB PROXIMITY PREVENTS DETAILED ANALYSIS. THE REST OF THE REGIONS ARE REPORTED TO BE GENERALLY STABLE THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW UNTIL OLD REGION 3870 (N15, L129) RETURNS, AS REGION 3870 PRODUCED 5 M-CLASS EVENTS DURING THE LAST 3 DAYS OF IT'S DISK PASSAGE IT IS EXPECTED TO INCREASE THE DISK POTENTIAL FOR MODERATE ACTIVITY. REGIONS 3895 AND 3901 (S13E30) MAY, IF RAPID CHANGE OCCURS, BECOME M-CLASS EVENT PRODUCERS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE TO UNSETTLED DURING THE PAST 24 HOURS. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THIS FORECAST PERIOD. THE LARGE FILAMENT WHICH DISAPPEARED ON 12 SEPTEMBER REFORMED IN IT'S SAME POSITION THEREFORE THE EXPECTED MAGNETIC DISTURBANCE FOR 15 SEPTEMBER IS NOT EXPECTED TO OCCUR.

III. EVENT PROBABILITIES 14 SEP-16 SEP

CLASS M 20/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 12 SEP 152

ESTIMATED 13 SEP 150

PREDICTED 14 SEP-16 SEP 148/155/158

90 DAY MEAN 12 SEP 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 11 SEP 011 AP 12 SEP 013

ESTIMATED AFR 12 SEP 013 AFR/AP 13 SEP 013/015

PREDICTED AFR/AP 14 SEP-16 SEP 012/016-013/020-013/015

SOLTERWARN

BT

HFUS 3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 256B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN LOW. ONLY SMALL SUBFLARES WITH LITTLE XRAY HAVE BEEN OBSERVED. NEW REGIONS TODAY ARE 3906(N02E57) AND 3907 (S09E82). REGION 3907 IS NOW CLASSIFIED AS A C GROUP AND CONTAINS ADDITIONAL STRUCTURE WHICH IS MOVING ONTO THE DISK. ACTIVE SURGE AND PROMINENCE PRECEDED THE ARRIVAL OF REGION 3908(N19E88), AN H TYPE SPOT GROUP, OBSERVED LATE IN THE PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW. A RETURN TOWARD MODERATE LEVELS IS EXPECTED TO OCCUR WITH THE RETURN OF OLD REGION 3870 ABOUT 15 SEPT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH A FEW K INDEXES OF 4. THE FIELD IS EXPECTED TO BE AT LOW ACTIVE TO UNSETTLED CONDITIONS WITH INTERMITTENT INDEXES OF 4 CONTINUING EARLY IN THE FORECAST PERIOD.

III. EVENT PROBABILITIES 14 SEP-16 SEP

CLASS M 20/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 SEP 149

PREDICTED 14 SEP-16 SEP 148/147/147

90 DAY MEAN 13 SEP 166

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 SEP 013/013

ESTIMATED AFR/AP 13 SEP 016/015

PREDICTED AFR/AP 14 SEP-16 SEP 016/016-013/020-013/015

SOLTERWARN

BT