

HFUS 1 BOU 221300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 265A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 22 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 21/1200Z TO 22/1200Z: SOLAR ACTIVITY REMAINS LOW. SUBFAINT FLARES WERE OBSERVED IN REGIONS 3907(S12W32) AND 3908(N19W26). REGION 3910(N13W14) ALSO PRODUCED A SUBFAINT FLARE AND A C1/SN FLARE AT 21/1910Z AND A C2/SB FLARE AT 22/0920Z. NO OTHER SIGNIFICANT ACTIVITY HAS BEEN REPORTED. ALL REGIONS ARE MAGNETICALLY SIMPLE WITH SMALL GRADIENTS. REGION 3907 APPEARS TO BE RESTRUCTURING AND PERHAPS GROWING SLIGHTLY IN WHITE LIGHT. REMAINING REGIONS ARE STABLE OR DECLINING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW. RETURNING REGIONS ARE NOT EXPECTED TO CONTRIBUTE SIGNIFICANTLY TO ACTIVITY DURING THE FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD INTENSIFIED TO MAJOR FROM MINOR STORM LEVELS AT THE BEGINNING OF THE UT DAY 22 SEPT. MAJOR STORM CONDITIONS ARE EXPECTED FOR MUCH OF THE DAY. MINOR STORM LEVELS SHOULD CONTINUE THROUGH THE MIDDLE OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 23 SEP-25 SEP

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 21 SEP 144

ESTIMATED 22 SEP 143

PREDICTED 23 SEP-25 SEP 142/140/138

90 DAY MEAN 21 SEP 161

V. GEOMAGNETIC A INDICES

OBSERVED AFR 20 SEP 020 AP 21 SEP 055

ESTIMATED AFR 21 SEP 044 AFR/AP 22 SEP 140/125

PREDICTED AFR/AP 23 SEP-25 SEP 036/045-028/025-022/020

SOLTERWARN

BT

HFUS 3 BOU 222200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 265B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 22 SEP 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/1200Z TO 22/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THIS PERIOD. THE LARGEST FLARE WAS C3/SB FROM REGION 3910(N13W19). THIS REGION HAS MINOR AREAS OF MAGNETIC COMPLEXITY AND IS INTERACTING WITH SMALL REGION 3914(N16W13). REGION 3907(S11W39) CONTINUES WITH MINOR FLUX EMERGENCE AND AN ACTIVE FILAMENT, BUT REMAINS A SMALL REGION. MINOR NEW REGIONS HAVE APPEARED TODAY: REGIONS 3916(S18E56) AND 3917(N14E77).

IB. SOLAR ACTIVITY FORECAST: NO INCREASE IN ACTIVITY IS EXPECTED FOR THE NEXT THREE DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE MAJOR GEOMAGNETIC STORM HAS DIMINISHED DURING THE PAST NINE HOURS. SOME INCREASE IN ACTIVITY IS EXPECTED AGAIN DURING LOCAL NIGHTTIME, BUT WITH MUCH LESS INTENSITY THAN EARLIER TODAY. ACTIVE TO MINOR STORM CONDITIONS ARE EXPECTED MOST OF THE FORECAST PERIOD AS HIGH SPEED SOLAR WIND ARRIVES FROM LARGE CORONAL HOLES.

III. EVENT PROBABILITIES 23 SEP-25 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
PREDICTED	23 SEP-25 SEP	142/140/138
90 DAY MEAN	22 SEP	161

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP	21 SEP	053/055
ESTIMATED AFR/AP	22 SEP	078/125
PREDICTED AFR/AP	23 SEP-25 SEP	036/045-028/020-022/020

SOLTERWARN
BT