

HFUS 1 BOU 091300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 313A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 09/1200Z: SOLAR ACTIVITY HAS BEEN LOW WITH THE EXCEPTION OF A SLOW RISE AND FALL M1 EVENT BEGINNING AT 0112Z, WITH MAXIMUM AT 0145Z. NO OPTICAL EVENT WAS REPORTED FOR THIS EVENT EVEN THOUGH TWO OBSERVATORIES WERE OPERATING AT THAT TIME. THE MOST LIKELY SOURCE IS A REGION OF VIGOROUS SURGING TRAILING A MODERATELY-LARGE CLASS D SPOT GROUP AT S08E74 (REGION 3987). THIS IS THE ONLY SIGNIFICANT REGION NOW ON THE SOLAR DISK. A MIXTURE OF GROWTH AND DECAY IS REPORTED IN A SMALLER CLASS D SPOT GROUP AT N11E04 (REGION 3979). THIS REGION IS SIMPLE IN STRUCTURE AND CHANGING SLOWLY. THE 14 OTHER BIPOLE MAGNETIC AREAS ON THE SOLAR DISK HAVE FEW, IF ANY, SPOTS AND WEAK PLAGE. A LARGE CORONAL HOLE DOMINATES THE NE QUADRANT OF THE SOLAR DISK.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH AN ISOLATED SMALL CLASS M EVENT FROM REGION 3987 ON ONLY ONE DAY OUT OF THE NEXT THREE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD BECAME TEMPORARILY ACTIVE AFTER 1630Z IN APPARENT RESPONSE TO A FILAMENT ERUPTION ON 04 NOVEMBER. ACTIVITY SUBSIDED TO UNSETTLED AFTER 0600Z. UNSETTLED CONDITIONS ARE EXPECTED TO PREDOMINATE THROUGHOUT THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 10 NOV-12 NOV

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 NOV 148

ESTIMATED 09 NOV 152

PREDICTED 10 NOV-12 NOV 155/160/162

90 DAY MEAN 08 NOV 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 NOV 004 AP. 08 NOV 010

ESTIMATED AFR 08 NOV 012 AFR/AP 09 NOV 012/015

PREDICTED AFR/AP 10 NOV-12 NOV 012/020-010/020-012/015

SOLTERWARN

BT

1518
1518
1518

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 313B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 09 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD, CONFINED TO SEVERAL C1 X-RAY BURSTS. WEATHER HAS PRECLUDED OPTICAL CORRELATION WITH MOST OF THESE MINOR X-RAY BURSTS.

REGION 3987 (S13E71) IS THE MOST SIGNIFICANT DISK REGION. ITS ATTENDANT PLAGE IS MODERATE IN INTENSITY AND HAS BEEN FLUCTUATING TO NEAR FLARE INTENSITY THROUGHOUT THE DAY. THE UNIPOLAR SPOT, AND WEAK PLAGE, NORTH OF 3987 HAS BEEN NUMBERED 3990 (S07E65). ADDITIONALLY, REGIONS 3988 (N08W11) AND 3989 (S15E13) HAVE EMERGED TODAY WITH RAPID GROWTH OCCURRING IN REGION 3988. THE OTHER DISK REGIONS ARE SIMPLE IN STRUCTURE AND STABLE OR DECLINING IN GROWTH.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW WITH AN ISOLATED SMALL CLASS M EVENT PROBABLE DURING THE FORECAST PERIOD FROM REGION 3987.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED. THESE CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES 10 NOV-12 NOV

CLASS M 25/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOV 152

PREDICTED 10 NOV-12 NOV 156/161/165

90 DAY MEAN 09 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 NOV 012/010

ESTIMATED AFR/AP 09 NOV 009/012

PREDICTED AFR/AP 10 NOV-12 NOV 012/013-010/014-012/015

SOLTERWARN

BT