

HFUS 1 BOU 091300Z

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 009A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 09 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 08/1200Z TO 09/1200Z: SOLAR ACTIVITY REMAINS LOW. ONLY SMALL CHANGES IN THE VISIBLE DISK REGIONS HAVE BEEN REPORTED. THESE CHANGES INCLUDE AN INCREASE IN THE NUMBER OF SPOTS IN REGION 4054 (S17W04) AND THE DEVELOPMENT OF AN ARCH FILAMENT SYSTEM IN REGION 4046 (S17W64). ALTHOUGH SHOWING NO SIGNIFICANT CHANGES, REGIONS 4053 (S09E28) AND 4048 (S13W02) AS WELL AS 4046 CONTINUE TO PRODUCE SUBFLARE ACTIVITY. TWO NEW REGIONS HAVE BEEN NUMBERED SINCE YESTERDAY: 4056 (N23E09) AND 4057 (N22E51). IR. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A LOW LEVEL.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THESE CONDITIONS SHOULD CONTINUE UNTIL LATE ON 11 OR EARLY ON 12 JANUARY AS THE FIELD REACTS TO A FILAMENT DISAPPEARANCE.

III. EVENT PROBABILITIES 10 JAN-12 JAN

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 08 JAN 165

ESTIMATED 09 JAN 161

PREDICTED 10 JAN-12 JAN 158/155/152

90 DAY MEAN 08 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 JAN 003 AP 08 JAN 010

ESTIMATED AFR 08 JAN 007 AFR/AP 09 JAN 009/010

PREDICTED AFR/AP 10 JAN-12 JAN 010/010-010/020-018/015

SOLTERWARN

BT

HFUS 3 BOU 092200  
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 009B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 2200Z 09 JAN 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
09/1200Z TO 09/2100Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 9  
HOURS. REGION 4046 (S16W71) PRODUCED THE LARGEST EVENT OF THE  
PERIOD, A C2/SB FLARE MAXING AT 1830Z. SOME DECAY HAS BEEN  
REPORTED IN REGION 4046. REGION 4054 (S17W12) HAS GROWN  
CONSIDERABLY AND IS NOW A REVERSED POLARITY REGION CROWDING  
REGION 4048 (S12W10), WHICH HAS NONETHELESS REMAINED STABLE  
THROUGHOUT THE DAY. SEVERAL SUBFLARES HAVE OCCURRED IN REGION  
4054. NO NEW REGIONS WERE NUMBERED DURING THIS REPORTING  
INTERVAL.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO  
REMAIN LOW. REGIONS 4048 AND 4054 SHOULD BE WATCHED FOR  
POSSIBLE INTERACTION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN AT STORM LEVELS FOR THE PAST 9 HOURS, BEGINNING WITH A  
SUDDEN COMMENCEMENT OF 33 GAMMAS IN BOULDER AT 1545Z. FILAMENT  
DISAPPEARANCES ARE THE PRESUMED SOURCE ESPECIALLY SINCE THE  
STORM CANNOT BE ATTRIBUTED TO FLARE OR RECURRENT CORONAL HOLE  
ACTIVITY. THERE ARE TWO DSF CANDIDATES: A DISAPPEARANCE BETWEEN  
1307 AND 1351Z ON 06 JAN LOCATED NEAR S11E33, AND A  
DISAPPEARANCE NEAR 1800Z ON 07 JAN LOCATED AT CENTER DISK. THIS  
GEOMAGNETIC DISTURBANCE IS EXPECTED TO LAST FOR 24 TO 36 HOURS.

III. EVENT PROBABILITIES 10 JAN-12 JAN

CLASS M 20/20/20  
CLASS X 01/01/01  
PROTON 01/01/01  
PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 JAN 155  
PREDICTED 10 JAN-12 JAN 152/148/145  
90 DAY MEAN 09 JAN 175

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 JAN 007/010  
ESTIMATED AFR/AP 09 JAN 015/010  
PREDICTED AFR/AP 10 JAN-12 JAN 025/020-015/020-010/015

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