

HFUS 1 BOU 09 14 00

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 009A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1200UT 09 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
08/1200UT TO 09/1200UT:

SOLAR ACTIVITY APPROACHED THE MODERATE LEVEL DURING THE PAST 24 HOURS WITH A C9/SB FLARE OBSERVED IN REGION 2874 (S12W29) AT 09/0315Z MAXIMUM. A 150 FLUX UNIT RADIO BURST AT 2695 MHZ ACCOMPANIED THE EVENT. THIS REGION CONTINUES ITS ASTONISHING GROWTH (A 300 PERCENT SPOT AREA INCREASE IN 24 HOURS) AND INCREASING MAGNETIC COMPLEXITY (NOW A BETA-GAMMA DELTA GROUP WITH STRONG GRADIENTS). REGION 2874 HAS BEEN THE PRIMARY PRODUCER OF ACTIVITY DURING THE PAST 12 HOURS. ALTHOUGH NOT NEARLY AS IMPRESSIVE INDIVIDUALLY, THE 2880/2882/2883 COMPLEX (CENTERED AT N08E47) SHOWS EVIDENCE OF DEVELOPING COMPLEXITY AND INTERACTION AND COULD BECOME A PRODUCTIVE CENTER IN THE NEAR FUTURE. THE REMAINING DISK REGIONS HAVE EITHER STABILIZED OR ARE DECLINING.

IB. SOLAR ACTIVITY FORECAST:

MODERATE SOLAR ACTIVITY IS EXPECTED THROUGH THE FORECAST PERIOD WITH ISOLATED M-CLASS EVENTS FROM REGION 2874 AND INCREASING FLARE ACTIVITY FROM THE NORTHEAST COMPLEX.

II. GEO PHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD WAS MILDLY UNSETTLED THROUGH THE LAST HALF OF THE ZULU DAY ON THE 8TH, BECOMING QUIET THROUGH THE CURRENT TIME TODAY. QUIET TO MILDLY UNSETTLED CONDITIONS ARE EXPECTED TO CONTINUE THROUGH THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 10 JANUARY - 12 JANUARY

CLASS M 40/50/60

CLASS X 01/05/05

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 08 JAN 175

ESTIMATED 09 JAN 179

PREDICTED 10-12 JAN 183/187/192

90 DAY MEAN 08 JAN 216

V. GEOMAGNETIC A INDICES

OBSERVED AFR 07 JAN 06 AP 08 JAN 09

ESTIMATED AFR 08 JAN 08 AFR/AP 09 JAN 06/08

PREDICTED AFR/AP 10-12 JAN 08/08 08/08 12/14

SOLTERWARN

BT

HFUS 3 BOU 092200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 0098

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200UT 09 JANUARY 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 09/1200UT
TO 09/2200UT:

SOLAR ACTIVITY HAS BEEN VERY LOW SINCE 1200UT. ONLY A COUPLE OF
VERY SMALL C-CLASS X-RAY BURSTS HAVE BEEN OBSERVED AND THOSE
WERE WITHOUT OPTICAL ASSOCIATION. REGION 2874 (S13W35) HAS LOST
ITS DELTA CONFIGURATION BUT IS STILL AN M-CLASS FLARE THREAT.

IB. SOLAR ACTIVITY FORECAST:

GENERALLY LOW SOLAR ACTIVITY IS EXPECTED WITH A FAIR CHANCE OF
OCCASIONAL LARGE C-CLASS OR SMALL M-CLASS X-RAY BURSTS.

II. GEO PHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET SINCE 1200UT. THE
FIELD IS EXPECTED TO BE QUIET TO MILDLY UNSETTLED FOR THE NEXT
48 HOURS.

III. EVENT PROBABILITIES: 10 JANUARY - 12 JANUARY 1981

CLASS M 40/50/60

CLASS X 01/05/05

PROTON 01/05/05

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 09 JANUARY 173

PREDICTED 10-12 JANUARY 175/175/175

90 DAY MEAN 09 JANUARY 215

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 08 JANUARY 09/09

ESTIMATED AFR/AP 09 JANUARY 05/08

PREDICTED AFR/AP 10-12 JANUARY 08/08 08/08 12/14

SOLTERWARN

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