

HFUS 1 BOU 101300
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 314A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 1300Z 10 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM
09/1200Z TO 10/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST
24 HOURS. THE LARGEST EVENT WAS C4/1N AT 0919Z(MAX) FROM
REGION 3987(S13E65). THIS REGION IS NOW VISIBLE AS A YOUNG,
DEVELOPING EKI SPOT GROUP WITH A POSSIBLE DELTA CONFIGURATION
IN THE CENTER OF THE REGION. REGIONS 3984(S16E47) AND
3990(S07E58) FORM A COMPLEX WITH REGION 3987, BUT THESE ARE
SMALL AND SIMPLE. NEW REGION 3988(N08W17) HAS NOT GROWN PAST A
SMALL CLASS C SPOT GROUP. ALL THE REMAINING SEVEN SPOTTED
REGIONS ARE SMALL AND DECLINING.

IB. SOLAR ACTIVITY FORECAST: ADDITIONAL GROWTH IN REGION 3987
IS EXPECTED TO PRODUCE CLASS M ACTIVITY IN THE NEXT 36 HOURS.
PROTON EMISSION IS LIKELY SHOULD AN EVENT APPROACH CLASS X
INTENSITY. A LARGE FILAMENT IN THE NW QUADRANT OF THE SOLAR
DISK IS EXPECTED TO ERUPT IN THE NEXT 48 HOURS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS
BEEN UNSETTLED AND OCCASIONALLY QUIET IN THE PAST 24 HOURS.
SIMILAR CONDITIONS ARE EXPECTED FOR ANOTHER 48 HOURS BEFORE
ARRIVAL OF A CORONAL-HOLE-RELATED DISTURBANCE.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 60/70/80

CLASS X 10/10/15

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 09 NOV 152

ESTIMATED 10 NOV 154

PREDICTED 11 NOV-13 NOV 156/158/162

90 DAY MEAN 09 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR 08 NOV 012 AP 09 NOV 009

ESTIMATED AFR 09 NOV 008 AFR/AP 10 NOV 010/012

PREDICTED AFR/AP 11 NOV-13 NOV 006/014-014/015-013/020

SOLTERWARN

BT

HFUS 3 BOU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 314B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 10 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 10/1200Z TO 10/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE. MOST OF THE FLARES ARE OCCURRING IN REGION 3987 (S13E59), THE LARGEST OF WHICH WAS A M2/2B WITH MAXIMUM AT 1804Z. HOWEVER, ONLY MINOR BURSTS ACROSS THE RADIO SPECTRUM OCCURRED WITH THIS FLARE. REGION 3987 CONTINUES TO GROW IN AREA AND COMPLEXITY AND IS THE DOMINANT REGION ON THE DISK. NEW FLUX IS EMERGING JUST SW OF REGION 3987; HOWEVER, DUE TO ITS CLOSE PROXIMITY TO 3987, NO REGION NUMBER IS BEING ASSIGNED AT THIS TIME. ALL OTHER DISK REGIONS REMAIN STABLE.

IB. SOLAR ACTIVITY FORECAST: WITH THE CONTINUED GROWTH IN REGION 3987, SOLAR ACTIVITY IS NOW EXPECTED TO REMAIN MODERATE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED. THE FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT 24-36 HOURS. THEN THE FIELD IS EXPECTED TO TRANSIT INTO ACTIVE CONDITIONS AS THE EARTH MOVES INTO A RECURRENT HIGH SPEED STREAM ASSOCIATED WITH A NORTHERN HEMISPHERE CORONAL HOLE.

III. EVENT PROBABILITIES 11 NOV-13 NOV

CLASS M 60/70/80

CLASS X 10/10/15

PROTON 10/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 10 NOV 156

PREDICTED 11 NOV-13 NOV 161/166/172

90 DAY MEAN 10 NOV 162

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 09 NOV 011/009

ESTIMATED AFR/AP 10 NOV 010/013

PREDICTED AFR/AP 11 NOV-13 NOV 010/015-014/015-018/020

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