

HFUS 1 ROL 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 348A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1300Z 14 DEC 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
13/1200Z TO 14/1200Z:

SOLAR ACTIVITY WAS MODERATE TO LOW DURING THIS PERIOD. AN M1/SN  
FLARE WAS PRODUCED BY REGION 3492 (N19W80) AT 13/2124Z. THIS  
FLARE WAS ACCOMPANIED BY SMALL RADIO NOISE BURSTS AT CENTIMETER  
WAVELENGTHS. APPROXIMATELY 6 SMALL C-CLASS SUBFLARES HAVE BEEN  
NOTED DURING THE PAST 24 HOURS. WORLDWIDE OPTICAL SUPPORT CON-  
TINUES TO BE HAMPERED BY WEATHER PROBLEMS.

IB. SOLAR ACTIVITY FORECAST: DESPITE OBSERVING PROBLEMS, EVERY  
INDICATION IS THAT SOLAR ACTIVITY IS DECLINING MARKEDLY IN THE  
NEAR TERM. THERE REMAINS A CHANCE OF ISOLATED M-CLASS FLARES FOR  
THE NEXT FEW DAYS, BUT ACTIVITY SHOULD BE GENERALLY LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS  
BEEN MILDLY UNSETTLED DURING THIS PERIOD. THE FIELD IS EXPECTED  
TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS.

CLASS M 40/35/30

CLASS X 05/01/01

PROTON 05/01/01

SCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 DEC 226

ESTIMATED 14 DEC 213

PREDICTED 15-17 DEC 200/190/184

90 DAY MEAN 13 DEC 221

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 DEC 017 AP 13 DEC 014

ESTIMATED AFR 13 DEC 012 AFR/AP 14 DEC 008/012

PREDICTED AFR/AP 15-17 DEC 010/010 012/012 012/016

SOLTERWARN

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HEUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO  
SDF NUMBER 2488

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 200Z 14 DEC 1981

I. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM  
14/1200Z TO 14/2100Z:

SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. ONLY ONE SUBFAINT  
FLARE WAS OBSERVED. MAGNETIC GRADIENTS OBSERVED IN WHITE  
LIGHT ARE MODERATELY STRONG IN REGION 3504 (S15W38), 3505  
(S06W23), AND 3507 (S05W53). THESE REGIONS EXHIBIT CHAR-  
ACTERISTICS TYPICAL OF ERUPTIVE REGIONS AND REGION 3504  
HAS A DELTA MAGNETIC CONFIGURATION. NO NEW REGIONS WERE OB-  
SERVED TODAY.

IR. SOLAR ACTIVITY FORECAST:

SOLAR ACTIVITY IS DECLINING TO A LOW LEVEL AND IS EXPECTED  
TO REMAIN LOW FOR THE NEXT THREE DAYS. LARGE C-CLASS X-RAY  
FLARES ARE EXPECTED FROM ANY OF REGIONS 3504, 3505, OR 3507  
AND AN ISOLATED M-CLASS FLARE MAY OCCUR ANY TIME DURING THE  
FORECAST PERIOD.

II. GEOPHYSICAL SUMMARY AND FORECAST:

THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 24 HOURS.  
UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES: 15 DEC - 17 DEC

CLASS M 40/35/30

CLASS X 05/01/01

PROTON 05/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 14 DEC 199

PREDICTED 15-17 DEC 186/175/168

90 DAY MEAN 14 DEC 220

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 DEC 11/14

ESTIMATED AFR/AP 14 DEC 07/12

PREDICTED AFR/AP 15-17 DEC 10/10 12/12 12/14

SOLTERWARN

BT