

HFUS 1 BOU 021300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 336A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 02 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS CONTINUED LOW DURING THIS PERIOD. THE LARGEST EVENT OBSERVED WAS A C5/SN AT 02/0640UT FROM REGION 4007 (S15W19) THIS EVENT HAD MINOR RADIO, 17 FLUX UNITS AT 2695MHZ, REGION 4005 (S10E01) ALSO HAD SEVERAL SMALL C-CLASS EVENTS.

NEW REGION 4012 (N12E62) IS BEHIND REGION 4010 (N09E44) AND TAKES THE TRAILERS OF 4010 THE MAGNETIC ANALYSIS OF THE GROUPS NOW MAKES REGION 4010 A SIMPLE "H" TYPE GROUP AND 4012 A SMALL "E" TYPE GROUP WITH 12 SPOTS. A NEW REGION MAY BE FORMING SE OF 4012

HOWEVER LIMITED INFORMATION PREVENTS NUMBERING AT THIS TIME. THE SECTION OF THE LARGE NE TO SW FILAMENT WHICH DISAPPEARED ON 01 DEC HAS DISAPPEARED AND REFORMED ON THE LAST TWO ROTATIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW DURING THIS FORECAST PERIOD. REGIONS 4007, 4005 AND 4012 MAY PRODUCE AN ISOLATED "M" CLASS EVENT DURING THE FORECAST PERIOD. ALTHOUGH OLD REGION 3987 (S12 L138) WILL BE NEAR THE EAST LIMB ON THE LAST DAY OF THE FORECAST IT WAS DECAYING AS IT APPROACHED THE WEST THEREFORE ONLY MINOR ACTIVITY IS EXPECTED.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 24 HOURS. THE LARGE SECTION OF THE NE TO SW FILAMENT WHICH DISAPPEARED ON 01 DEC ALSO DISAPPEARED ON 04 NOV AND 11 OCT WITHOUT MUCH CHANGE IN THE OBSERVED GEOMAGNETIC FIELD. IN THE ABSENCE OF LARGE FLARES THE FIELD IS EXPECTED TO REMAIN QUIET TO UNSETTLED DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 03 DEC-05 DEC

CLASS M 10/10/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 DEC 173

ESTIMATED 02 DEC 176

PREDICTED 03 DEC-05 DEC 170/170/176

90 DAY MEAN 01 DEC 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 NOV 012 AP 01 DEC 005

ESTIMATED AFR 01 DEC 003 AFR/AP 02 DEC 003/005

PREDICTED AFR/AP 03 DEC-05 DEC 010/010-010/015-012/015

SOLTERWARN

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HFUS 3 BOU 022200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO
SDF NUMBER 336B
JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.
ISSUED 2200Z 02 DEC 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 02/2100Z: SOLAR ACTIVITY HAS BEEN MODERATE FOR THE PAST 9 HOURS. NEW REGION 4012 (N13E55), PREVIOUSLY CONSIDERED TO BE THE EASTERN PORTION OF REGION 4010 (N09E40), PRODUCED A LONG-LASTING M1/1B FLARE MAXING AT 1757Z. MINOR RADIO BURSTS ACROSS THE CENTIMETRIC SPECTRUM AND SYMPATHETIC ACTIVITY IN REGION 4010 ACCOMPANIED THE FLARE. NEW REGION 4014 (N05E59), A C-TYPE GROUP JUST SOUTHEAST OF 4012, HAS PRODUCED 2 SUBFLARES AND ADDS TO THE INTEREST IN THE NORTHEAST QUADRANT. REGION 4005 (S11W05) IS GROWING AND ITS LARGE LEADER SPOT IS CHANGING SHAPE. NEW REGION 4013 (N14E04) EMERGED ON THE DISK AND IS PRESENTLY A D-TYPE GROUP. EXCEPT FOR A SINGLE SUBFAINT FLARE, REGION 4007 (S14W24) HAS REMAINED STABLE THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW BUT WITH THE POSSIBILITY OF ADDITIONAL M-CLASS ACTIVITY FROM THE COMPLEX OF REGIONS IN THE NORTHEAST QUADRANT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET FOR THE PAST 9 HOURS. GENERALLY QUIET CONDITIONS ARE FORECAST TO CONTINUE FOR THE NEXT 3 DAYS.

III. EVENT PROBABILITIES 03 DEC-05 DEC

CLASS M 20/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 DEC 171

PREDICTED 03 DEC-05 DEC 170/170/170

90 DAY MEAN 02 DEC 165

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 DEC 002/005

ESTIMATED AFR/AP 02 DEC 002/005

PREDICTED AFR/AP 03 DEC-05 DEC 010/010-010/015-010/015

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