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SOLTERWARN BDR

CNET OBS A MEUDO

HFUS 1 BOU 231300

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER CO

SDF NUMBER 023A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY

ISSUED 1300Z 23 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 22/1200Z TO 23/1200Z: SOLAR ACTIVITY HAS BEEN LOW. SUNSPOT NUMBERS AND THE BACKGROUND 10 CM FLUX HAVE DECLINED STEADILY FOR 4 DAYS NOW, AND THE FREQUENCY OF C-CLASS EVENTS IS MUCH LOWER THAN IT HAS BEEN. WITH THE ROTATION OF THE SUNS MOST ACTIVE LONGITUDES BEHIND THE WEST LIMB, THE ONLY INTERESTING REGION REMAINING IS 3569 (S07E28). THIS REGION CURRENTLY HAS AN AREA OF 200 MILLIONTHS AND IS GROWING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS FORECAST TO BE LOW. ONE OR TWO REGIONS ON THE DISK COULD DEVELOP INTO MAJOR FLARE PRODUCERS WITHIN 2 OR 3 DAYS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD CONTINUED AT ACTIVE LEVELS THROUGHOUT THIS PERIOD. A GRADUAL RETURN TO UNSETTLED CONDITIONS IS EXPECTED DURING THE REMAINDER OF THE DAY.

III. EVENT PROBABILITIES 24-26 JAN

CLASS M 40/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 22 JAN 158

ESTIMATED 23 JAN 153

PREDICTED 24-26 JAN 148/148/152

90-DAY MEAN 22 JAN 196

V. GEOMAGNETIC A INDICES

OBSERVED AFR 21 JAN 13 AP 22 JAN 29

ESTIMATED AFR 22 JAN 19 AFR/AP 23 JAN 20/20

PREDICTED AFR/AP 24-26 JAN 12/15 - 10/15 - 08/12

SOLTERWARN

BT

HFUS 3 BOU 232200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 023B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 23 JAN 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 23/1200Z TO 23/2100Z: SOLAR ACTIVITY HAS BEEN LOW. SLOW GROWTH IS OCCURRING IN REGION 3569 (S07E23) AND RESTRUCTURING HAS BEEN OBSERVED IN 3557 (N04W19). SEVERAL SMALL REGIONS MAY BE ROTATING ONTO THE DISK OVER THE NORTHEAST LIMB BUT NO SPOTS ARE VISIBLE AT THIS TIME.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD CONTINUE LOW. PREVIOUSLY ACTIVE AND GROWING REGION 3537 (N10, L=331) COULD ARRIVE ACTIVE AT THE EAST LIMB LATE TOMORROW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO SLIGHTLY ACTIVE DURING THE LAST NINE HOURS. GENERALLY UNSETLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 24 JAN-26 JAN

CLASS M 30/30/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 23 JAN 153

PREDICTED 24 JAN-26 JAN 148/148/153

90 DAY MEAN 23 JAN 195

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 22 JAN 020/029

ESTIMATED AFR/AP 23 JAN 016/020

PREDICTED AFR/AP 24 JAN-26 JAN 012/015-010/015-010/012

SOLTERWARN

BT

HXUS BOU 232200

PREDM 03024 03025 03026

PREDX 00124 00125 00126

PREDP 00124 00125 00126

PCAFT 00124

TENCM 14824 14825 15326

AFRED 01224 01025 01026

AFAPF 01524 01525 01226

BT