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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 306A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 02 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 02/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE. REGION 3432 (S12E31) PRODUCED A M1/SB (1314Z X-RAY MAX), A C9/SB (2257Z X-RAY MAX), AND A C9/SB (0148Z X-RAY MAX). MODERATE CENTIMETRIC RADIO BURSTS OCCURRED WITH EACH OF THESE FLARES. REGIONS 3427 (N15E02) AND 3429 (S22E01) HAVE PRODUCED SEVERAL SUBFLARES. HOWEVER, THE VAST MAJORITY OF FLARES ARE OCCURRING IN REGION 3432; THE MOST SIGNIFICANT OF THE DISK REGIONS. THE DELTA CONFIGURATION STILL REMAINS IN THE LEAD PORTION OF THE SUNSPOT STRUCTURE. THE INTENSITY OF THE RADIO BURSTS ASSOCIATED WITH FLARES IN REGION 3432 IS INCREASING. FIVE NEW REGIONS, ALL SIMPLE, WERE ADDED ON 01 NOVEMBER.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN MODERATE, DOMINATED BY ACTIVITY IN REGION 3432.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD WAS UNSETTLED ON 01 NOVEMBER BUT QUIET TODAY. THE FIELD IS EXPECTED TO BECOME UNSETTLED ON 03 NOVEMBER AND REMAIN SO UNTIL THE LATTER PART OF 05 NOVEMBER, WHEN THE EFFECTS OF A CORONAL HOLE ARE EXPECTED TO PRODUCE ACTIVE FIELD CONDITIONS.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 60/70/70

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 NOV 232

ESTIMATED 02 NOV 250

PREDICTED 03 NOV-05 NOV 255/260/265

90 DAY MEAN 01 NOV 222

V. GEOMAGNETIC A INDICES

OBSERVED AFR 31 OCT 004 AP 01 NOV 009

ESTIMATED AFR 01 NOV 008 AFR/AP 02 NOV 004/008

PREDICTED AFR/AP 03 NOV-05 NOV 013/015-010/015-012/014

SOLTERWARN

BT

HXUS BOU 021300

PREDM 06003 07004 07005

PREDX 00503 00504 00505

PREDP 00103 00104 00105

PCAF 00103

TENCM 25503 26004 26505

AFRED 01303 01004 01205

AFAPP 01503 01504 01405

KKK 12233 32323 33232

RT

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HUS 3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 306B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 NOV 1981

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 02/1200Z TO 02/2100Z: SOLAR ACTIVITY WAS LOW TO MODERATE THE PAST NINE HOURS. REGION 3427(N16W05) PRODUCED A C7/1B FLARE AT 021509Z (MAX) WITH SHORTWAVE FADES TO 15 MHZ AND SMALL RADIO BURSTS AT BOTH SWEEP AND FIXED FREQUENCIES (130 FLUX UNITS AT 2695 MHZ). REGION 3427 IS DEVELOPING ADDITIONAL SATELLITE SPOTS AND THE PLAGE TO THE SOUTHWEST OF THE LARGE SPOT MAY BE GROWING. LARGE REGION 3432(S12E22) HAS BEEN BASICALLY QUIET BUT DID MANAGE A SMALL SB FLARE AT 021504Z(MAX). THIS REGION RETAINS ITS DELTA CONFIGURATION AND POSSIBLY SOME SPOT ROTATION IS OCCURRING WITHIN THE LARGE PENUMBRA. ARCH/FILAMENT SYSTEMS ARE BEING REPORTED IN REGIONS 3431(N28314) 3440(N14352) AND 3443 (N12E09). AN APR NEAR NE05 MAY BE A WEAK LOOP SYSTEM.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD BE GENERALLY MODERATE THE NEXT 24 HOURS. RECENT DEVELOPMENT IN REGION 3432 PRECIPITATED THE INCREASE IN CLASS X PROBABILITIES.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. GENERALLY UNSETTLED CONDITIONS ARE EXPECTED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 03 NOV-05 NOV

CLASS M 60/70/70

CLASS X 10/15/20

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 NOV 247

PREDICTED 03 NOV-05 NOV 255/260/265

90 DAY MEAN 02 NOV 223

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 NOV 007/009

ESTIMATED AFR/AP 02 NOV 006/003

PREDICTED AFR/AP 03 NOV-05 NOV 013/015-010/015-012/014

SOLTERWARN

BT

HUS BOU 022200

PREDM 06003 07004 07005

PREDX 01003 01504 02005

PREDP 00103 00104 00105

PCAF 00103

TENCM 25503 26004 26505

AFRED 01303 01004 01205

AFAPP 01503 01504 01405

BT