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HFXS 1 BOU 061300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 065A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 06 MAR 1982

I.A. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 05/1200Z TO 06/1200Z: SOLAR ACTIVITY HAS BEEN LOW FOR THE PAST 24 HOURS. CLASS C X-RAY EVENTS HAVE BEEN CONCENTRATED IN THE BLENDED REGIONS 3629(S21W18) AND 3631(S13W19). BOTH SPOT GROUPS ARE TYPE EKI. SLOW GROWTH AND SLIGHTLY INCREASED COMPLEXITY ARE REPORTED IN REGION 3631 WHICH CORRELATE WITH THE INCREASED FREQUENCY OF SMALL IMPULSIVE FLARES AT THIS LOCATION. THIS REGION IS MOVING WEST WITH RESPECT TO REGION 3629, INTRODUCING SHEAR AND AN INCREASING MAGNETIC GRADIENT BETWEEN THE TWO CLOSELY-SPACED REGIONS. THE LARGE REGION 3634(N05E68) IS VISIBLE AS ANOTHER CLASS E SPOT GROUP AND POSSIBLY IS STILL GROWING. ANOTHER REGION MAY BE FOLLOWING CLOSE BEHIND IT. A SMALL REGION HAS EMERGED AT S08E22(REGION 3635). A LARGE BRIGHT PLAGE WITH CONVOLUTED MAGNETIC CONFIGURATION CONTINUES TO MARK REGION 3628(N17W44). THE SPOT GROUP HAS DIMINISHED BUT RETAINS A STRONG DELTA CONFIGURATION(HIGH GRADIENT CO-SPATIAL WITH STRONG TRANSVERSE MAGNETIC FIELDS).

I.B. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO INCREASE WITH CONTINUED SLOW GROWTH IN THE TWO MAJOR ACTIVITY CENTERS 3629/3631 AND 3634.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN VERY QUIET FOR THE PAST TWELVE HOURS AND SHOULD CONTINUE QUIET FOR ANOTHER 48 HOURS. A RECURRENT MINOR STORM IS EXPECTED ON 09 MARCH AS A SECTOR BOUNDARY PASSES EARTH AND A HIGH-SPEED SOLAR WIND STREAM ARRIVES FROM A DEVELOPING CORONAL HOLE.

III. EVENT PROBABILITIES 07 MAR-09 MAR

CLASS M 70/80/80

CLASS X 05/10/15

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 MAR 252

ESTIMATED 06 MAR 255

PREDICTED 07 MAR-09 MAR 258/252/242

90 DAY MEAN 05 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR 04 MAR 010 AP 05 MAR 016

ESTIMATED AFR 05 MAR 015 AFR/AP 06 MAR 003/008

PREDICTED AFR/AP 07 MAR-09 MAR 005/015-005/015-020/015

SOLTERWARN

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PREDM 07007 08008 08009

PREDX 00507 01008 01509

PREDP 00507 01008 01509

PCAFT 00107

TENCM 25807 25208 24209

AFRED 00507 00508 02009

AFAPP 01507 01508 01509

KKK 11122 11112 22211

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HFXS 3 BOU 062200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 065B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 06 MAR 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 06/1200Z TO 06/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 9 HOURS. SATELLITE SENSORS HAVE DETECTED SIX SMALL C-CLASS X-RAY BURSTS DURING THAT TIME, ONLY ONE OF WHICH HAD ASSOCIATED OPTICAL ACTIVITY REPORTED WITH IT. THAT FLARE WAS A C3/SN IN REGION 3631 (S13W27) AT 06/1750Z. NEARBY REGION 3629 (S22W26) HAS DIMINISHED SIGNIFICANTLY SINCE YESTERDAY AND MAY HAVE BEEN RESPONSIBLE FOR SOME OF THE X-RAY BURSTS. NEW REGIONS 3635 (S05E16) AND 3636 (S14E78) HAVE BEEN NUMBERED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW TO MODERATE. SMALL M-CLASS FLARES ARE POSSIBLE FROM THE REGIONS 3629/3631 COMPLEX AND FROM REGIONS 3628 (N15W50) AND 3634 (N05E58).

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET DURING THE PAST 9 HOURS. THE FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR THE NEXT 48 HOURS.

III. EVENT PROBABILITIES 07 MAR-09 MAR

CLASS M 70/80/80

CLASS X 05/10/15

PROTON 05/10/15

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 06 MAR 241

PREDICTED 07 MAR-09 MAR 244/238/228

90 DAY MEAN 06 MAR 200

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 05 MAR 013/016

ESTIMATED AFR/AP 06 MAR 003/008

PREDICTED AFR/AP 07 MAR-09 MAR 005/015-005/015-020/015

SOLTERWARN

BT

HXUS BOU 062200

PREDM 07007 08008 08009

PREDX 00507 01008 01509

PREDP 00507 01008 01509

PCAFT 00107

TENCM 24407 23808 22809

AFRED 00507 00508 02009

AFAPF 01507 01508 01509

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