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SDF NUMBER 273A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.  
ISSUED 1200UT 04 OCT 1980

IA. SOLAR ACTIVITY HAS BEEN LOW. NUMEROUS SUBFLARES HAVE BEEN OBSERVED, AND NEW REGION 2714 (S07E47) PRODUCED A C3/1N MAXIMUM AT 03/2218Z. REGION 2697 (S17W57) FLARED AT THE SAME TIME GIVING A 1N MAXIMUM AT 03/2309Z.

IB. REGIONS SHOWING SPOT DECAY ARE 2699 (N22W21), 2707 (N14E24), REGION 2696 (S07W71) HAS REGAINED SPOTS AND IS SHOWING RAPID GROWTH. REGION 2701 (N14W10) IS SHOWING SPOT DECAY IN THE LEADER WITH GROWTH IN NUMBER IN THE MID AND TRAILER PORTIONS. PROPER MITIONS ARE APPEARING IN THE MID PORTION AND REORGANIZATION TOWARD INCREASED COMPLEXITY WITH POSSIBLE INCREASE IN THE MAGNETIC GRADIENTS. AFS AND ADF ARE PRESENT IN 2701 AS WELL. ACTIVITY IS INCREASING SLIGHTLY ALONG THE NEUTRAL LINES SHARED BY REGIONS 2705 (N07W70), 2694 (N13W63), 2696, AND 2697.

FILAMENTS ARE ACTIVE ON THE DISK ALONG THE NEUTRAL LINE THROUGH N23E33, N06E08 AND S25E12 AT THE TIME OF THIS REPORT. ACTIVE PROMINENCE HAS BEEN OBSERVED SE77 AND ACTIVE SURGES AT NE09 AND SE26. ACTIVITY WILL PROBABLY CONTINUE IN REGION 2701 AT LOW LEVELS WITH SLIGHT ADDITIONAL CONTRIBUTIONS FROM THE GROUP APPROACHING THE WEST LIMB AND POSSIBLY FROM 2714.

II. GEOMAGNETIC ACTIVITY HAS BEEN LOW UNTIL NEAR 04/0300Z A RAPID INCREASE IN ACTIVITY REACHED NEAR ACTIVE LEVELS DURING 0300-0600Z INTERVAL. ACTIVITY CONTINUES AT UNSETTLED LEVELS. IT IS EXPECTED TO CONTINUE UNSETTLED FOR A FEW MORE HOURS.

III. EVENT PROBABILITIES: 05 OCT - 07 OCT

CLASS M 40/40/30

CLASS X 01/01/01

PROTON 01/01/01

IV. OTTAWA 10.7 FLUX

OBSERVED 03 OCT 174

ESTIMATED 04 OCT 172

PREDICTED 05 OCT-07 OCT 170/168/166

90 DAY MEAN 03 OCT 181

V. GEOMAGNETIC A INDICES

OBSERVED AFR 02 OCT 06 AP 03 OCT 05

ESTIMATED AFR 03 OCT 03 AFR/AP 04 OCT 14/16

PREDICTED AFR/AP 05 OCT-07 OCT 3/3 6/3 6/3

EFFECTIVE 1 OCT 1980 BEGAN OPERATING 24 HRS/DAY AND WILL ISSUE TWO DAILY FORECASTS, ONE AT 1200Z AND THE OTHER AT 2200Z. THE 1200Z FORECAST WILL EMPHASIZE DETAILS ON SOLAR ACTIVE REGION ANALYSIS. THE 2200Z FORECAST WILL DISCUSS MAJOR SOLAR GEOPHYSICAL EVENTS.

SOLTERWARN

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HFUS 1 BOU 042200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 278B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200UT 04 OCTOBER 1980

IA. SOLAR ACTIVITY HAS REMAINED LOW DURING THE PAST 10 HOURS. ONLY SUB CLASS FLARES HAVE BEEN REPORTED. REGION 2701 (N14W16) AND 2707 (N14E18) HAVE BOTH PRODUCED SUB FAINT FLARES, NO X-RAYS WERE REPORTED. THREE NEW REGIONS TODAY 2715 (N18E08), 2716 (S14E63) AND 2717 (N14E84). REGION 2717 (N14E84).

REGION 2717 IS A LARGE H TYPE GROUP. SMALL SURGES ARE BEING REPORTED JUST NORTH OF THE REGION. COMPACT FLARE JUST SOUTH OF THE SPOTS. REGION 2701 CONTAINS ARCH FILAMENTS IN THE TRAILER PORTION.

IB. SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST 10 HOURS THE MOST ACTIVE PERIOD HAS BEEN FROM 0900-1800 UT. THE FIELD IS EXPECTED TO BE UNSETTLED DURING THE FORECAST PERIOD.

III. EVENT PROBABILITIES: 05-07 OCTOBER

CLASS M 40/40/30

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 FLUX

OBSERVED 04 OCT 175

PREDICTED 05 OCT-07 OCT 175/174/171

90 DAY MEAN 04 OCT 181

IV. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 03 OCT 03/05

ESTIMATED AFR/AP 04 OCT 16/16

PREDICTED AFR/AP 05-07 OCT 08/10 08/10 08/12

SOLTERWARN

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