

HFUS 1 BOU 011300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 305A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 01 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 31/1200Z TO 01/1200Z: SOLAR ACTIVITY HAS BEEN MODERATE DURING THE PAST 24 HOURS. AN M1 X-RAY EVENT MAXING ON 01 NOV/0344Z WAS ASSOCIATED WITH A LIMB EVENT AT SW11 NEAR THE LOCATION OF DEPARTED REGION 3955. AN ERUPTIVE PROMINENCE SEEN OUT TO .3 RADII BEGAN AT 0330Z AND WAS FOLLOWED BY A BRIGHT SURGE OUT TO .2 RADII. POST-FLARE LOOPS BEGAN AT 0427Z AND ENDED AT 0729Z. A MODERATE INTENSITY TYPE II SWEEP AND POSSIBLE TYPE IV RADIO SIGNATURES ACCOMPANIED THE EVENT. SURGING CONTINUES FROM THIS PORTION OF THE SOUTHWEST LIMB. ON THE DISK, REGION 3966 (N06W31) IS THE MOST SIGNIFICANT GROUP. NEW LEADER POLARITY SPOTS ARE EMERGING SOUTH OF THE MAIN TRAILER SPOT AND A DELTA MAGNETIC CONFIGURATION COULD DEVELOP. REGION 3961 (S07W59) IS SIMPLIFYING AND 3960 (N10W64) IS UNDERGOING DECAY. FOLLOWER SPOTS TO NEW REGION 3970 (N21E68) HAVE COME OVER THE EAST LIMB. THIS REGION IS THE RETURN OF OLD REGION 3938 WHICH WAS MILDLY ERUPTIVE LAST ROTATION. A NEW H-TYPE SPOT HAS BEEN OBSERVED NEAR NE09 WHICH IS BEING ACCOMPANIED BY MINOR SURGING AT NE05 AND NE10.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW. IF DEVELOPMENT CONTINUES IN REGION 3966, ISOLATED M-CLASS EVENTS MAY BE POSSIBLE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT STORM LEVELS DURING THE PAST 24 HOURS. AN APPARENT SUDDEN COMMENCEMENT OCCURRED 31 OCT/1339Z WHICH WAS FOLLOWED BY MAGNETIC ACTIVITY RANGING FROM UNSETTLED THROUGH MAJOR STORM CONDITIONS. THE ISEE-3 SPACECRAFT, WHICH IS ONCE AGAIN BEYOND THE EARTH'S MAGNETOSPHERE, IS SHOWING HIGH-SPEED, LOW-DENSITY SOLAR WIND WHICH IS INDICATIVE OF A CORONAL HOLE OF NEGATIVE POLARITY. UNSETTLED TO ACTIVE GEOMAGNETIC CONDITIONS ARE EXPECTED TO CONTINUE THROUGHOUT THE FORECAST PERIOD. LOOKING AHEAD, THERE IS A GOOD POSSIBILITY OF INCREASED ACTIVITY ON 6 NOVEMBER IN RESPONSE TO TODAY'S ENERGETIC LIMB EVENT.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 OCT 168

ESTIMATED 01 NOV 160

PREDICTED 02 NOV-04 NOV 155/142/130

90 DAY MEAN 31 OCT 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 30 OCT 025 AP 31 OCT 024

ESTIMATED AFR 31 OCT 025 AFR/AP 01 NOV 025/025

PREDICTED AFR/AP 02 NOV-04 NOV 015/020-015/020-020/020

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FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

ADP NUMBER 305B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 01 NOV 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/1200Z TO 01/2400Z: SOLAR ACTIVITY HAS BEEN LOW DURING THIS PERIOD THE LARGEST EVENT OBSERVED WAS A C3/1E FROM REGION 3965 (N06W37) AT 2006UT. REGION 3965 IS NOW A BETA GAMMA DELTA BUT HAS EXHIBITED MINOR DECAY IN SIZE. REGION 3961 (S02W65) HAS DECLINED IN SIZE THIS PERIOD AND IS A SIMPLE BETA GROUP. THE NEW GROUPS TODAY ARE 3974 (S21E35), SIMPLE B TYPE, 3972 (N11E73), C TYPE, 3973 (N24E76) A D TYPE AND 3974 (N05E81) A SIMPLE A TYPE. THE REST OF THE REGIONS LITTLE CHANGED THIS PERIOD.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE THIS PERIOD. THE FIELD IS EXPECTED TO REMAIN ACTIVE, WITH PERIODS AT MINOR STORM, DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 02 NOV-04 NOV

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 01 NOV 162

PREDICTED 02 NOV-04 NOV 155/142/130

90 DAY MEAN 01 NOV 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 31 OCT 030/024

ESTIMATED AFR/AP 01 NOV 030/040

PREDICTED AFR/AP 02 NOV-04 NOV 015/020-015/020-020/020

SOLTERWAR N

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