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HFUS 1 BOU 161300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 228A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 16 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/1200Z TO 16/1200Z: SOLAR ACTIVITY HAS REMAINED LOW. REGION 3856 (S12W11) IS NOW THE DOMINANT REGION ON THE DISK AND THIS IS DUE SOLELY TO ITS SIZE. WHILE NOT PRODUCING ANY SIGNIFICANT ACTIVITY, 3856 HAS BEEN A RAPIDLY GROWING BETA GAMMA GROUP WITH A FAIRLY TIGHT GRADIENT. ANOTHER REGION OF RAPID GROWTH IS 3861 (N08W25) WHICH APPEARED ON THE DISK AND QUICKLY BECAME A MODERATE B GROUP. ALSO, REGION 3858 (S04E45) MAY BEAR WATCHING AS IT ROTATES FURTHER ONTO THE DISK. THE OTHER DISK FEATURES ARE SMALL AND/OR SIMPLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. DYNAMIC BEHAVIOR FROM REGION 3856 IS POSSIBLE SHOULD COMPLEXITY INCREASE.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD IS QUIET. QUIET CONDITIONS UNTIL 19 AUG ARE EXPECTED.

III. EVENT PROBABILITIES 17 AUG-19 AUG

CLASS M 35/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 AUG 169

ESTIMATED 16 AUG 164

PREDICTED 17 AUG-19 AUG 154/147/140

90 DAY MEAN 15 AUG 167

V. GEOMAGNETIC A INDICES

OBSERVED AFR 14 AUG 007 AP 15 AUG 008

ESTIMATED AFR 15 AUG 004 / AFR/AP 16 AUG 007/C10

PREDICTED AFR/AP 17 AUG-19 AUG 007/013-007/013-010/015

SOLTERWARN

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NNNNZSV

HFUS 3 BOU 162200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 223B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 16 AUG 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 16/1200Z TO 16/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. SEVERAL SMALL FLARES (MAX OF C2/SN) HAVE OCCURED IN REGIONS 3856 (S12W20) AND 3861 (N08W32) DURING THIS PERIOD. REGION 3856 HAS AN ARCH FILAMENT SYSTEM AND IS STILL GROWING RAPIDLY IN WHITE LIGHT. MAGNETICALLY IT REMAINS A CLASS BETA, BUT THE MAGNETIC GRADIENT IS INCREASING. REGION 3861 ALSO HAS AN ARCH FILAMENT SYSTEM AND IS GROWING. SMALL REGION 3862 (N27E53) WAS NUMBERED TODAY. THE OTHER REGIONS ARE DECREASING IN COMPLEXITY, AND OR WHITE LIGHT AREA.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN QUIET. QUIET TO UNSETLED CONDITIONS ARE EXPECTED THROUGH THE PERIOD.

III. EVENT PROBABILITIES 17 AUG-19 AUG

CLASS M 35/25/25

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 AUG 158

PREDICTED 17 AUG-19 AUG 154/147/142

90 DAY MEAN 16 AUG 168

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 AUG 002/008

ESTIMATED AFR/AP 16 AUG 006/010

PREDICTED AFR/AP 17 AUG-19 AUG 007/013-007/013-010/015

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