

HFXUS 1 BOU 141300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 287A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 14 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/1200Z TO 14/1200Z: SOLAR ACTIVITY CONTINUES LOW WITH ONLY SMALL CLASS C FLARES BEING OBSERVED. REGIONS 3938 (N22W51) AND 3948 (N07W00) HAVE STABILIZED AND ARE MAGNETICALLY SIMPLE. REGION 3950 (S07E58) CONSISTS OF A LARGE LEADER SPOT, NO VISIBLE TRAILERS, AND MODERATELY BRIGHT PLAGE. REGIONS 3946 (S10W28) AND 3949 (N03W16) ARE GROWING SLOWLY. SUBFLARES HAVE BEEN OBSERVED FROM MOST OF THESE REGIONS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN LOW FOR THE FORECAST PERIOD. CURRENT DISK REGIONS APPEAR CAPABLE OF ONLY CLASS C FLARES. PREVIOUSLY ACTIVE LONGITUDES ARE DUE TO BEGIN RETURNING TO THE DISK ON 15 OCT.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN AT MINOR STORM LEVELS. IT IS ASSUMED THIS DISTURBANCE IS RELATED TO THE LATE ARRIVAL OF FILAMENT MATERIAL AT THE EARTH. ACTIVE TO OCCASIONALLY MINOR STORM CONDITIONS SHOULD CONTINUE THROUGH TODAY CHANGING TO PREDOMINANTLY ACTIVE LEVELS FOR THE FORECAST PERIOD DUE TO THE EFFECTS OF A FAVORABLY LOCATED CORONAL HOLE.

III. EVENT PROBABILITIES 15 OCT-17 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCT 145

ESTIMATED 14 OCT 150

PREDICTED 15 OCT-17 OCT 154/155/153

90 DAY MEAN 13 OCT 164

V. GEOMAGNETIC A INDICES

OBSERVED AFR 12 OCT 013 AP 13 OCT 026

ESTIMATED AFR 13 OCT 020 AFR/AP 14 OCT 040/042

PREDICTED AFR/AP 15 OCT-17 OCT 020/025-020/020-020/020

SOLTERWARN

BT

HFXUS BOU 141300

PREDM 00515 00516 00517

PREDX 00115 00116 00117

PREDP 00115 00116 00117

PCAF 00115

TENCM 15415 15516 15317

AFRED 02015 02016 02017

AFAPF 02515 02016 02017

KKK 43454 43334 44433

RT

KBOU

HFUS 3 BOU 142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 281B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/1200Z TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW THIS PERIOD. THE LARGEST FLARE WAS A C 1.1/ SUB NORMAL FLARE IN REGION 3949 (N03W23). REGIONS 3949, 3946 (S10W34), AND 3938 (N22W58) HAVE HAD ARCHED FILAMENT SYSTEMS TODAY, WHILE REGION 3948 (N07W08) HAS DECREASED SIGNIFICANTLY IN WHITE LIGHT AREA SINCE YESTERDAY.

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

II. GEOPHYSICAL SUMMARY AND FORECAST: A MINOR GEOMAGNETIC STORM WAS IN PROGRESS AT THE START OF THIS PERIOD. THE GEOMAGNETIC FIELD IS NOW ACTIVE. THE FIELD IS EXPECTED TO REMAIN IN THE ACTIVE CATEGORY THROUGH THE FORECAST PERIOD DUE TO CORONAL HOLE ACTIVITY.

III. EVENT PROBABILITIES 15 OCT-17 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 OCT 141

PREDICTED 15 OCT-17 OCT 144/147/151

90 DAY MEAN 14 OCT 163

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 OCT 024/026

ESTIMATED AFR/AP 14 OCT 033/036

PREDICTED AFR/AP 15 OCT-17 OCT 020/025-020/020-020/020

SOLTERWAR N