

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/13/86 00:00:00

End : 10/13/86 23:59:00

10/13 22:00

2249

HFUS3 BOU 132200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 286

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 OCT 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4747 (N35W99) IS AN HSX TYPE SPOT GROUP. ACTIVE SURGING WAS OBSERVED IN THE REGION. REGION 4748 (S03W94) IS A BXO TYPE SPOT GROUP. AN ERUPTIVE PROMINENCE WAS OBSERVED IN THE REGION NEAR 1400 UT. REGION 4749 (S05W85) IS AN AXX TYPE SPOT GROUP. ONLY MINOR FLARES WERE OBSERVED AND NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD WAS QUIET AT ALL LATITUDES EARLY IN THE PERIOD AND ACTIVE WITH PERIODS OF MINOR TO MAJOR STORM LATER THE PERIOD. ACTIVITY INCREASED SHARPLY AFTER A SUDDEN IMPULSE AT 1450UT (OBSERVED AT ALL LATITUDES). A RECURRENT PATTERN OF ACTIVE CONDITIONS OF SEVERAL PAST SOLAR ROTATIONS HAS APPARENTLY RETURNED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE WITH PERIODS OF MINOR STORM AT MIDDLE LATITUDES AND ACTIVE WITH PERIODS OF MINOR TO MAJOR STORM CONDITIONS AT HIGH LATITUDES FOR THE NEXT THREE DAYS. THE RECURRENT PATTERN OF ACTIVITY SHOULD PERSIST THROUGH AT LEAST 18 OCTOBER.

III. EVENT PROBABILITIES 14 OCT-16 OCT

CLASS M 05/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCT 076

PREDICTED 14 OCT-16 OCT 074/072/071

90 DAY MEAN 13 OCT 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 OCT 002/005

ESTIMATED AFR/AP 13 OCT 020/030

PREDICTED AFR/AP 14 OCT-16 OCT 015/025-020/030-020/030

NNNN

<003>

10/13 22:00

224

HFUS3 BOU 132200 CDR

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 286

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 13 OCT 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 12/2100Z TO 13/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4747 (N05W99) IS AN HSX TYPE SPOT GROUP. ACTIVE SURGING WAS OBSERVED IN THE REGION. REGION 4748 (S03W94) IS A BXO TYPE SPOT GROUP. AN ERUPTIVE PROMINENCE WAS OBSERVED IN THE REGION NEAR 1400 UT. REGION 4749 (S05W85) IS AN AXX TYPE SPOT GROUP. ONLY MINOR FLARES WERE OBSERVED AND NO NEW REGIONS WERE NUMBERED.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 12/2100Z TO 13/2100Z: THE GEOMAGNETIC FIELD WAS QUIET AT ALL LATITUDES EARLY IN THE PERIOD AND ACTIVE WITH PERIODS OF MINOR TO MAJOR STORM LATER IN THE PERIOD. ACTIVITY INCREASED SHARPLY AFTER A SUDDEN IMPULSE AT 1450UT (OBSERVED AT ALL LATITUDES). A RECURRENT PATTERN OF ACTIVE CONDITIONS OF SEVERAL PAST SOLAR ROTATIONS HAS APPARENTLY RETURNED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE ACTIVE WITH PERIODS OF MINOR STORM AT MIDDLE LATITUDES AND ACTIVE WITH PERIODS OF MINOR TO MAJOR STORM CONDITIONS AT HIGH LATITUDES FOR THE NEXT THREE DAYS. THE RECURRENT PATTERN OF ACTIVITY SHOULD PERSIST THROUGH AT LEAST 18 OCTOBER.

III. EVENT PROBABILITIES 14 OCT-16 OCT

CLASS M 05/02/02

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 13 OCT 076

PREDICTED 14 OCT-16 OCT 074/072/071

90 DAY MEAN 13 OCT 070

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 12 OCT 002/005

ESTIMATED AFR/AP 13 OCT 020/045

PREDICTED AFR/AP 14 OCT-16 OCT 015/025-020/030-020/030

ESTIMATED AP CORRECTED

NNNN

<003>