

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 30/2100Z TO 31/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGIONS 4751 (S27W73), 4754 (NOOE18), AND 4755 (N01E31) ARE THE ONLY REGIONS WITH SPOTS. REGION 4755 PRODUCED A FEW SUBFLARES AND SEEMS TO BE SLOWING FROM ITS INITIAL GROWTH PHASE. A 245 MHZ RADIO NOISE STORM WAS OBSERVED FOR PERIODS OF THE DAY WITH NUMEROUS BURSTS SUPERPOSED OVER THE BACKGROUND LEVELS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. THERE IS A SLIGHT CHANCE FOR M-FLARE ACTIVITY FROM 4755 OR 4754.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 30/2100Z TO 31/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED. BRIEF PERIODS OF ACTIVE TO MINOR STORM CONDITIONS WERE OBSERVED AT HIGH LATITUDES EARLY IN THE PERIOD.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE GENERALLY UNSETTLED FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 01 NOV-03 NOV

CLASS M 20/15/15

CLASS X 01/01/01

PROTON 05/04/04

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 31 OCT 091

PREDICTED 01 NOV-03 NOV 087/085/085

90 DAY MEAN 31 OCT 074

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 30 OCT 010/020

ESTIMATED AFR/AP 31 OCT 007/010

PREDICTED AFR/AP 01 OCT-03 NOV 010/010-010/010-005/010

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SESC Solar Summary and Forecast - For Joe Hirman

Begin: 10/30/86 00:00:00

End : 10/30/86 23:59:00

10/30 22:00

2204

HFUS3 BOU 302200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 303

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 30 OCT 1986

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 29/2100Z TO 30/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGION 4750 ROTATED OFF THE DISK QUIETLY. A NEW BI-POLAR REGION 4755 (N02E46) DEVELOPED TODAY AND PRODUCED SOME SUBFLARE ACTIVITY. THIS REGION IS GROWING QUICKLY AND HAS A STRONG AFS IN PROGRESS. SUBFLARES WERE ALSO OBSERVED FROM 4753 (S23W05) AND 4751 (S27W61). TWO C1.0 CLASS X-RAY EVENTS WERE OBSERVED AT 0956Z AND 1006Z RESPECTIVELY. NO OPTICAL OBSERVATIONS WERE AVAILABLE AT THESE TIMES.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW. REGIONS 4754 AND 4755 ARE THE MOST LIKELY TO PRODUCE FLARES. REGIONS 4751 AND 4752 ARE EXPECTED TO ROTATE OFF THE DISK AT APPROXIMATELY 1100Z AND 2400Z ON 1 NOVEMBER.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 29/2100Z TO 30/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. GROUND BASED MAGNETOMETERS OBSERVED AN INCREASE TO ACTIVE LEVELS AT ABOUT 29/2315Z.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE QUIET TO UNSETTLED FOR 31 OCTOBER, AND UNSETTLED ON 1-2 NOVEMBER.

III. EVENT PROBABILITIES 31 OCT-02 NOV

CLASS M 20/15/15

CLASS X 03/03/03

PROTON 03/03/03

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 30 OCT 091

PREDICTED 31 OCT-02 NOV 091/085/085

90 DAY MEAN 30 OCT 073

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 29 OCT 013/021

ESTIMATED AFR/AP 30 OCT 012/018

PREDICTED AFR/AP 31 OCT-02 NOV 007/015-010/015-010/015

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