

SESC Solar Summary and Forecast - For Joe Hirman

Begin: 01/18/87 00:00:00

End : 01/18/87 23:59:00

01/18 22:00

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HFUS3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 018

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 JAN 1987

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/2100Z TO 18/2100Z: SOLAR ACTIVITY HAS BEEN VERY LOW. REGIONS 4764

(S26E32) AND 4765 (S26E35) ARE LOCATED IN ADJACENT BIPOLAR PLAGE. BOTH PLAGE HAVE MAGNETIC CHARACTERISTICS CONSISTENT WITH THE NEW SUNSPOT CYCLE (NUMBER 22). REGION 4766 (S24E76) WAS NUMBERED LATE TODAY. ALL THREE REGIONS ARE SMALL AXX TYPE SPOT GROUPS. ONLY MINOR FLARE ACTIVITY WAS OBSERVED. A 45 DEGREE LONG FILAMENT PARTIALLY DISAPPEARED NEAR N40W14 EARLY IN THE DAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN VERY LOW FOR THE NEXT THREE DAYS. THERE IS A SLIGHT CHANCE FOR MINOR FLARE ACTIVITY IN REGIONS 4764 AND 4765. NO REGIONS ARE DUE TO RETURN.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 17/2100Z TO 18/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY QUIET TO UNSETTLED AT ALL LATITUDES.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO SLIGHTLY ACTIVE AT ALL LATITUDES FOR THE NEXT THREE DAYS. THIS FORECAST IS BASED ON A WEAK RECURRENT PATTERN OF SEVERAL PAST SOLAR ROTATIONS. THE FILAMENT DISRUPTION THE NORTHWEST QUADRANT IS EXPECTED TO PRODUCE GEOMAGNETIC EFFECTS BEGINNING 23 JANUARY.

III. EVENT PROBABILITIES 19 JAN-21 JAN

CLASS M 02/02/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 JAN 073

PREDICTED 19 JAN-21 JAN 073/073/073

90 DAY MEAN 18 JAN 077

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 17 JAN 010/008

ESTIMATED AFR/AP 18 JAN 008/013

PREDICTED AFR/AP 19 JAN-21 JAN 014/017-012/015-010/015

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