

HFUS3 BOU 022200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 246

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 02 SEP 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 01/2100 TO 02/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. THE ONLY C CLASS EVENT RECORDED DURING THE PAST 24 HOURS WAS A C8/1B FROM REGION 4567 (S07W40) AT 1001UT. THIS EVENT PRODUCED A RADIO BURST OF 360 SOLAR FLUX UNITS AT 245MHZ, LITTLE RADIO OBSERVED IN THE HIGHER FREQUENCIES. REGION 4567 HAS EXHIBITED MINOR SIZE DECAY AND THE PLAGE DOES NOT APPEAR AS BRIGHT AS YESTERDAY. REGION 4567 IS STILL MAGNETICALLY COMPLEX WITH A BETA/DELTA CONFIGURATION. NEW REGIONS TODAY ARE 4572 (S11W03) AND 4573 (N02E43) SIMPLE B TYPE GROUPS HOWEVER 4572 DOES HAVE BRIGHT PLAGE WITH 5 SPOTS VISIBLE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO CONTINUE LOW DURING THE FORECAST PERIOD. REGION 4567 MAY PRODUCE AN ISOLATED M CLASS EVENT IF RAPID CHANGE OCCURS IN THE REGION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 01/2100Z TO 02/2100Z: THE GEOMAGNETIC FIELD WAS GENERALLY AT ACTIVE LEVELS DURING THE PAST 24 HOURS. HOWEVER SHORT PERIODS OF MINOR STORM CONDITIONS WERE OBSERVED AT ALL LATITUDES DURING THIS PERIOD. THIS ACTIVITY IS THOUGHT TO BE FROM SOME OF THE SMALL FILAMENTS WHICH DISAPPEARED ON 29/30 AUG.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED ON 03 SEP AND AT ACTIVE LEVELS DURING THE REST OF THE FORECAST PERIOD. SHORT PERIODS OF MINOR STORM CONDITIONS DURING THE NIGHT TIME SECTORS.

III. EVENT PROBABILITIES 03 SEP-05 SEP

CLASS M 10/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 02 SEP 092

PREDICTED 03 SEP-05 SEP 093/094/094

90 DAY MEAN 02 SEP 090

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 01 SEP 010/015

ESTIMATED AFR/AP 02 SEP 016/020

PREDICTED AFR/AP 03 SEP-05 SEP 010/015-015/015-015/015

SOLTERWARN

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