

FUS-3-BOU-142200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 257

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 14 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 13/2100 TO 14/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. ACTIVITY HAS BEEN LIMITED TO A SINGLE C1/SB FLARE FROM REGION 4317 (S13E24). THIS BRIEF FLARE BEGAN AT 0935Z, PEAKED AT 0938Z, AND WAS OVER BY 0943Z. THE EVENT WAS ACCCOMPANIED BY WEAK CENTIMETRIC WAVELENGTH BURSTS AND A WEAK TYPE II SWEEP. ON THE SOLAR DISK, NEW MAGNETIC FLUX CONTINUES TO EMERGE IN REGION 4317 AS IT MANAGES TO SLOWLY GROW. THE ONLY OTHER REGION OF SIGNIFICANCE, 4307 (S07W59), IS LITTLE CHANGED FROM YESTERDAY. DURING THE DAY, A NEW A-TYPE GROUP APPEARED NEAR S04W66 AND WAS LISTED AS REGION 4318.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN AT LOW LEVELS OVER THE NEXT SEVERAL DAYS. ONE OR MORE SMALL FLARES FROM REGION 4317 ARE LIKELY DURING THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 13/2100Z TO 14/2100Z: THE GEOMAGNETIC FIELD HAS BEEN GENERALLY UNSETTLED DURING THE DAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT UNSETTLED TO SLIGHTLY ACTIVE LEVELS OVER THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 15 SEP-17 SEP

CLASS M 20/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 14 SEP 104

PREDICTED 15 SEP-17 SEP 104/103/102

90 DAY MEAN 14 SEP 124

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 13 SEP 007/011

ESTIMATED AFR/AP 14 SEP 008/010

PREDICTED AFR/AP 15 SEP-17 SEP 010/020-015/025-015/025

SOLTERWARN

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