

HFUS 3 BOU 16220

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 259

JOINT USAF/NOAA REPORT OF SOLAR AND GEO HYSICAL ACTIVITY.

ISSUED 2200Z 16 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 15/2100 TO 16/2100Z: SOLAR ACTIVITY HAS BEEN LOW DURING THE PAST 24 HOURS. REGION 4317 (S13W01) HAS EXHIBITED LITTLE GROWTH THIS PERIOD HOWEVER IT STILL CONTAINS A WEAK DELTA MAGNETIC CONFIGURATION. NEW REGIONS NUMBERED TODAY ARE 4319 (S04W43), SIMPLE "A" TYPE, AND 4319 (S08E87) WHICH IS THE RETURN OF OLD 4302 WHICH PRODUCED ONE "M" CLASS EVENT LAST ROTATION. NO SPOTS ARE YET VISIBLE WITH 4319 BUT IT DID PRODUCE A B3/SF FLARE AT 1917UT.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO BE NEAR MODERATE LEVELS DUE TO REGIONS 4317 AND 4319.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 15/2100Z TO 16/2100Z: THE GEOMAGNETIC FIELD WAS AT GENERALLY ACTIVE LEVELS WITH SHORT PERIODS OF MINOR STORM CONDITIONS AT THE MID-LATITUDE SITES.

THE HIGH LATITUDE SITES OBSERVED PERIODS OF MAJOR STORM LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE AT ACTIVE TO STORM LEVELS DURING THIS FORECAST PERIOD.

III. EVENT PROBABILITIES 17 SEP-19 SEP

CLASS M 40/40/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 16 SEP 107

PREDICTED 17 SEP-19 SEP 108/108/108

90 DAY MEAN 16 SEP 124

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 15 SEP 016/023

ESTIMATED AFR/AP 16 SEP 020/025

PREDICTED AFR/AP 17 SEP-19 SEP 025/025-020/020-020/020

SOLTERWARN

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