

FUS 3 BOU 252200
FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 268

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 25 SEP 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 24/2100 TO 25/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. X-RAY BURSTS HAVE BEEN C1 OR LESS. MOST OF THE FLARES HAVE OCCURRED IN REGION 4324 (S20E33). NEW GROWTH IS OCCURRING WEST OF THE LARGE TRAILER SPOT IN REGION 4324. THIS HAS BEEN THE SITE OF THE FLARES AND NUMEROUS FLUCTUATIONS/BRIGHT POINTS. REGIONS 4325 (N07W08) AND 4326 (S15E61), BOTH REGIONS ARE SIMPLE WITH DULL PLAGE, WERE ADDED TODAY.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. HOWEVER, CONTINUED GROWTH AND AN INCREASE IN COMPLEXITY IN REGION 4324 COULD TRIGGER CLASS M ACTIVITY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 24/2100Z TO 25/2100Z: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE WITH PERIODS AT STORM LEVEL AT HIGH LATITUDES. ISSE-3 CURRENTLY IS RECORDING THE HIGH WIND SPEED/LOW DENSITY SIGNATURE OF A CORONAL HOLE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN ACTIVE, WITH PERIODS AT STORM LEVEL - PRIMARILY AT HIGH LATITUDES, THROUGHOUT THE FORECAST PERIOD.

III. EVENT PROBABILITIES 26 SEP-28 SEP

CLASS M 15/15/15

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED --- 25 SEP 111

PREDICTED --- 26 SEP-28 SEP 112/113/113

90 DAY MEAN 25 SEP 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 24 SEP 009/012

ESTIMATED AFR/AP 25 SEP 021/020

PREDICTED AFR/AP 26 SEP-28 SEP 025/025-020/020-015/020

SOLTERWARN

BT