

FUS 3 BOU 052200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 125

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 05 MAY 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 04/2100 TO 05/2100Z: SOLAR ACTIVITY HAS BEEN LOW. THE LARGEST FLARES WERE CLASS C6/1B AT 0021Z (MAX); C4 (NO OPTICAL) AT 0917Z AND C4(NO OPTICAL) AT 1401Z. THE VISIBLE DISK REGIONS APPEAR STABLE OR DECAYING IN THEIR GROWTH PATTERNS EXCEPT FOR 4167 (N13W21) AND 4168 (S14E09) WHICH HAVE GROWN SLIGHTLY IN WHITE LIGHT. RELATIVELY ENERGETIC SURGING HAS OCCURRED IN THE SOUTHEAST AND PROBABLY PRESAGES THE RETURN OF OLD 4148. REGION 4148 CROSSED WEST LIMB AS A BETA GAMMA DELTA MAGNETIC CLASS AND APPARENTLY RETAINED THIS COMPLEXITY ON THE BACK SIDE.

IB. SOLAR ACTIVITY FORECAST: THE RETURN OF OLD 4148 WILL MOST LIKELY RESULT IN INCREASED FLARE ACTIVITY AND MORE FAVORABLE CONDITIONS FOR M FLARE PRODUCTION.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 04/2100Z TO 05/2100Z: THE GEOMAGNETIC FIELD HAS NOT BEEN IMPACTED AS SEVERELY BY THE CORONAL HOLE AS WAS ORIGINALLY EXPECTED AND ONLY UNSETTLED TO ACTIVE CONDITIONS WERE OBSERVED THIS ZULU DAY.

IIB. GEOPHYSICAL ACTIVITY FORECAST: GENERALLY UNSETTLED TO ACTIVE CONDITIONS ARE EXPECTED THROUGH 7 MAY. A FILAMENT DISAPPEARANCE EARLY TODAY IS EXPECTED TO RESULT IN MINOR STORM CONDITIONS ON 8 MAY.

III. EVENT PROBABILITIES 06 MAY-08 MAY

CLASS M 50/50/50

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 05 MAY 129

PREDICTED 06 MAY-08 MAY 129/131/133

90 DAY MEAN 05 MAY 119

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 04 MAY 023/028

ESTIMATED AFR/AP 05 MAY 017/030

PREDICTED AFR/AP 06 MAY-08 MAY 015/030-012/030-040/030

SOLTERWARN

BT