

HFUS 3 BUU 102200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 136

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 15 MAY 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 14/2100 TO 15/2100Z: SOLAR ACTIVITY WAS AT A LOW LEVEL DURING THE PAST 24 HOURS. REGION 4481 (N07W43) IS BECOMING LESS AND LESS OF A THREAT AS DECAY CONTINUES AND THE MAGNETIC GRADIENTS RELAX MORE AND MORE. REGION 4490 (S15E57) RECENTLY BECAME A FLARE PRODUCER HAVING THREE SUBFAINTS TO ITS CREDIT SO FAR TODAY. THE OTHER VISIBLE REGIONS REMAIN BASICALLY QUIET. TWO OLD PLAGES, 4487 (S14E20) AND 4489 (S17E14), HAVE REGAINED THEIR SPOTS.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN AT A LOW LEVEL WITH THE POSSIBILITY OF ISOLATED ENERGETIC ACTIVITY FROM 4481. OLD REGION 4474 , WHICH WAS QUITE ACTIVE ON ITS LAST TRANSIT, IS DUE BACK ON THE VISIBLE DISK BY 18 MAY.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 14/2100Z TO 15/2100Z: THE GEOMAGNETIC FIELD HAS BEEN UNSETTLED TO ACTIVE.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE THRU 17 MAY AND THEN UNSETTLED.

III. EVENT PROBABILITIES 16 MAY-18 MAY

CLASS M 40/30/40

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 15 MAY 137

PREDICTED 16 MAY-18 MAY 133/130/127

90 DAY MEAN 15 MAY 130

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 14 MAY 010/015

ESTIMATED AFR/AP 15 MAY 015/017

PREDICTED AFR/AP 16 MAY-18 MAY 012/020-012/020-010/010

SOLTERWARN

BT