

HFUS 3 BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 058

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 27 FEB 1984

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 26/2100 TO 27/2100Z: SOLAR ACTIVITY WAS AT A LOW LEVEL DURING THE PAST 24 HOURS. REGION 4421 (N16W55) IS ONLY PRODUCING OCCASIONAL SUBFLARES AS IT CONTINUES ITS SLOW DECAY. THE MAGNETIC CONFIGURATION REMAINS A BETA DELTA WHILE THE NUMBER OF SPOTS IN THE GROUP IS DECLINING. REGION 4422 (N11W29) IS ALSO DECAYING IN BOTH SPOT AREA AND NUMBER. THE INFREQUENT SUBFLARES FROM THIS REGION APPEAR LESS AND LESS RICH IN XRAY EMISSION. A NEW REGION WAS NUMBERED TODAY; 4426 (S12W14). THE SMALL PLAGE AREA IN THE SOUTHEAST IS PROBABLY OLD REGION 4408 RETURNING.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY SHOULD REMAIN GENERALLY LOW FOR THE NEXT 24 HOURS BUT M LEVEL FLARES ARE POSSIBLE FROM BOTH REGIONS 4421 AND 4422.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 26/2100Z TO 27/2100Z: THE GEOMAGNETIC FIELD WAS AT STORM LEVELS DURING THE PAST TWENTY FOUR HOURS BUT HAS NOW DECLINED TO ACTIVE LEVELS.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO BE UNSETTLED TO ACTIVE FOR THE NEXT THREE DAYS.

III. EVENT PROBABILITIES 28 FEB-01 MAR

CLASS M 50/50/40

CLASS X 05/05/05

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 27 FEB 157

PREDICTED 28 FEB-01 MAR 150/143/135

90 DAY MEAN 27 FEB 115

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 26 FEB 011/017

ESTIMATED AFR/AP 27 FEB 027/025

PREDICTED AFR/AP 28 FEB-01 MAR 012/020-013/020-015/020

SOLTERWARN

BT