

HXUS 1 BOU 201300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 293A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 20 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/1200Z TO 20/1200Z: SOLAR ACTIVITY CONTINUES LOW, CONFINED TO LOW LEVEL CLASS C/SUBFLARES. REGION 3950 (S07W22) HAS DECAYED IN THE TRAILER SUNSPOT STRUCTURE. REGION 3955 (S09E63), THE MOST SIGNIFICANT DISK REGION, HAS A MODERATE INTENSITY AND FLUCTUATING PLAGUE STRUCTURE. REGIONS 3956 (N08W74), 3957 (S14E10), AND 3958 (N10E13) HAVE BEEN ADDED. REGIONS 3957 AND 3958 HAVE ARCH FILAMENTS INDICATING CONTINUED GROWTH. ADDITIONALLY, SPOTS ARE NOW REPORTED NEAR N11E70. SURGING CONTINUES BEYOND EAST LIMB NEAR NE12, WHICH MAY BE PRECURSORS FOR THE RETURN OF OLD REGION 3922.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW BUT WITH A TREND UPWARD IN THE SIZE AND FREQUENCY OF THE X-RAY BURSTS.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE. THE FIELD IS EXPECTED TO BE UNSETTLED BUT WITH A TREND TOWARD ACTIVE LEVELS. THE LATTER HALF OF THE FORECAST PERIOD.

III. EVENT PROBABILITIES 21 OCT-23 OCT

CLASS M 15/20/20

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 19 OCT 138

ESTIMATED 20 OCT 144

PREDICTED 21 OCT-23 OCT 150/158/166

90 DAY MEAN 19 OCT 158

V. GEOMAGNETIC A INDICES

OBSERVED AFR 18 OCT 018 AP 19 OCT 014

ESTIMATED AFR 19 OCT 014 AFR/AP 20 OCT 017/021

PREDICTED AFR/AP 21 OCT-23 OCT 012/010-010/015-015/015

SOLTERWARN

BT

HXUS BOU 201300

PREDM 01521 02022 02023

PREDX 00121 00122 00123

PREDP 00121 00122 00123

PCAF1 00121

TENCM 15021 15822 16623

AFRED 01221 01022 01523

AFAPF 01021 01522 01523

KKK 22333 22222 34332

BT