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HFXUS 1 BOU 181300

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 291A

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 1300Z 18 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 17/1200Z TO 18/1200Z: SOLAR ACTIVITY IS LOW. REGION 3950 (S07E06) IS PRODUCING AN INFREQUENT FLARE AS IT IS GROWING SLIGHTLY. THE PLAGE ASSOCIATED WITH 3950 IS BRIGHT BUT REMAINS SPARSE. NONE OF THE OTHER VISIBLE REGIONS ARE SHOWING MUCH CHANGE. TWO NEW REGIONS WERE NUMBERED DURING THE PAST 24 HOURS: 3952 (N16W03) AND 3953 (N16E14). A SMALL BRIGHT PLAGE WITH SURGING IS VISIBLE NEAR SE 05.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN UNSETLED TO ACTIVE. NO CHANGE IS EXPECTED.

III. EVENT PROBABILITIES 19 OCT-21 OCT

CLASS M 05/05/05

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 17 OCT 131

ESTIMATED 18 OCT 131

PREDICTED 19 OCT-21 OCT 133/134/140

90 DAY MEAN 17 OCT 159

V. GEOMAGNETIC A INDICES

OBSERVED AFR 16 OCT 014 AP 17 OCT 020

ESTIMATED AFR 17 OCT 017 AFR/AP 18 OCT 015/018

PREDICTED AFR/AP 19 OCT-21 OCT 015/020-012/020-012/015

SOLTERWARN

BT

HFXUS BOU 181300

PREDM 00519 00520 00521

PREDX 00119 00120 00121

PREDP 00119 00120 00121

PCAF 00119

TENCM 13319 13420 14021

AFRED 01519 01220 01221

AFAPF 02019 02020 01521

KKK 33344 33333 44433

BT

NNNNVVZGVZLVAUJU

KBOU

HFUS 3 BOU 182200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 291B

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 18 OCT 1982

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 18/1200Z TO 18/2100Z: SOLAR ACTIVITY HAS REMAINED LOW. REGION 3950 (S07W00) PRODUCED THE LARGEST OBSERVED FLARE OF THE PERIOD, A C1/SN AT 1849Z MAXIMUM. THIS REGION HAS APPARENTLY STOPPED GROWING, BUT STILL DISPLAYS AN ACTIVE DARK FILAMENT AND MINOR PLAGE FLUCTUATIONS. NEW REGION 3954 (S07E65), WHICH PRODUCED SOME LIMB SURGING YESTERDAY, HAS ROTATED OVER EAST LIMB AS AN UNIMPRESSIVE C-TYPE GROUP. NEW REGION 3955 (S09E81) IS THE MORE ACTIVE OF THE TWO REGIONS WITH NEARLY CONTINUOUS SURGING AND A LOOP PROMINENCE SYSTEM VISIBLE. THE LEADING PORTION OF THIS SPOT GROUP IS JUST BARELY ONTO THE VISIBLE DISK. THE REMAINING TWO-SPOOTTED REGIONS DISPLAYED LITTLE CHANGE.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW, HOWEVER, RETURNING ACTIVE REGIONS DURING THE NEXT THREE DAYS SHOULD RESULT IN A GRADUAL INCREASE IN THE 10.7CM SOLAR RADIO FLUX AND SUNSPOT NUMBER ALONG WITH AN INCREASE IN MINOR FLARE PRODUCTION.

II. GEOPHYSICAL SUMMARY AND FORECAST: THE GEOMAGNETIC FIELD HAS BEEN ACTIVE DURING THE PAST NINE HOURS. THESE CONDITIONS ARE FORECAST TO CONTINUE THROUGH THE NEXT 24 HOURS FOLLOWED BY UNSETTLED LEVELS FOR THE REMAINDER OF THE PERIOD.

III. EVENT PROBABILITIES 19 OCT-21 OCT

CLASS M 05/05/10

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 18 OCT 134

PREDICTED 19 OCT-21 OCT 13.6/138/142

90 DAY MEAN 18 OCT 158

V. GEOMAGNETIC INDICES

OBSERVED AFR/AP 17 OCT 018/020

ESTIMATED AFR/AP 18 OCT 018/020

PREDICTED AFR/AP 19 OCT-21 OCT 015/020-012/020-012/015

SOLAR/WARN

BT

NNNZSV

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