

HFUS 3 BOU 202200

FROM SPACE ENVIRONMENT SERVICES CENTER, BOULDER, COLORADO

SDF NUMBER 293

JOINT USAF/NOAA REPORT OF SOLAR AND GEOPHYSICAL ACTIVITY.

ISSUED 2200Z 20 OCT 1983

IA. ANALYSIS OF SOLAR ACTIVE REGIONS AND ACTIVITY FROM 19/2100 TO 20/2100Z: SOLAR ACTIVITY HAS BEEN LOW SINCE THE M4 FROM REGION 4335 ON THE WEST LIMB AT 19/2016Z (MAX). BOULDER HAD FLARE GLOBULES BARELY DISCERNABLE ABOVE THE LIMB AND LEARNMOTH REPORTED POST FLARE LOOPS. A BURST OF 240 FU (2695 MHZ) AT 2009Z (MAX) WAS REPORTED BY PALEHUA. SURGING HAS CONTINUED FROM DEPARTED REGION 4335. THREE STABLE AND SIMPLY SPOTTED REGIONS REMAIN ON THE DISK. WEAK FLUX EMERGENCE IS OCCURRING CLOSE TO SPOTLESS REGION 4343.

IB. SOLAR ACTIVITY FORECAST: SOLAR ACTIVITY IS EXPECTED TO REMAIN LOW. NO SIGNIFICANT REGION IS DUE TO RETURN THROUGH THE FORECAST PERIOD.

IIA. GEOPHYSICAL ACTIVITY SUMMARY FROM 19/2100Z TO 20/2100Z: THE GEOMAGNETIC FIELD HAS BEEN QUIET TO SLIGHTLY UNSETTLED.

IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN QUIET TO SLIGHTLY UNSETTLED UNTIL THE LATTER HALF OF 21 OCTOBER. EARTH SHOULD THEN COME INTO THE EFFECTS OF A RECURRENT NEAR EQUATORIAL CORONAL HOLE. ACTIVE CONDITIONS SHOULD PERSIST THROUGH 23 OCTOBER. INDIVIDUAL SUBSTORMS WILL PRODUCE SHORT PERIODS AT STORM LEVEL, PRIMARILY AT HIGHER LATITUDES.

III. EVENT PROBABILITIES 21 OCT-23 OCT

CLASS M 05/01/01

CLASS X 01/01/01

PROTON 01/01/01

PCAF GREEN

IV. OTTAWA 10.7 CM FLUX

OBSERVED 20 OCT 100

PREDICTED 21 OCT-23 OCT 099/098/097

90 DAY MEAN 20 OCT 120

V. GEOMAGNETIC A INDICES

OBSERVED AFR/AP 19 OCT 007/012

ESTIMATED AFR/AP 20 OCT 005/015

PREDICTED AFR/AP 21 OCT-23 OCT 012/015-020/025-020/025

SOLTERWARN

BT