

NNNN

KBOU

HFUS BOU 192200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 201 ISSUED 2200Z 19 JULY 1972

A. SOLAR ACTIVITY CONTINUES AT A LOW LEVEL, BUT THERE HAVE BEEN SEVERAL INTERESTING DEVELOPMENTS. REGION 304 /N13W14/ HAS PRODUCED ONLY TWO SUBFLARES IN THE LAST 24 HOURS BUT HAS UNDERGONE RAPID GROWTH AND APPEARS TO BE CROWDING REGION 288 /N09W24/. THE NEUTRAL LINE RUNNING THRU REGIONS 296 /S08W07/ AND 293 /S09W20/ HAS BEEN SHIFTING AND ITS PRESENT POSITION IS NOT CLEAR. REGION 303 /N18W79/ AND THE REMNANTS OF REGION 305 /ABOUT S12E58/ HAVE BOTH STARTED PRODUCING SUBFLARES.

A PROTON ENHANCEMENT STARTED ABOUT 19/1000Z AND THE PRESENT COUNTING RATES FROM THE ATS-1 SATELLITE ARE ABOUT FIVE TIMES BACKGROUND. THE GEOMAGNETIC FIELD HAS BEEN UNSETLED.

B. LOW ACTIVITY WILL CONTINUE, EXCEPT THAT THE 288/304 COMPLEX MAY CREAT HIGH ENOUGH FIELD GRADIENTS TO PRODUCE ENERGETIC ACTIVITY. EAST LIMB ACTIVITY SUGGESTS THAT AN ACTIVE REGION, POSSIBLY RETURNING REGION 274, MAY CROSS ONTO THE VISIBLE DISK IN THE NEXT 48 HOURS. THE GEOMAGNETIC FIELD IS EXPECTED TO REMAIN SOMEWHAT UNSETLED FOR THE NEXT 72 HOURS.

C. EVENT PROBABILITIES FOR 20 JULY/0000Z-22 JULY/2400Z.

CLASS M 35/25/20

CLASS X 03/01/01

PROTON 03/01/01

D. OTTAWA 10.7CM FLUX

OBSERVED 19 JULY/1700Z 105

PREDICTED 20-22 JULY 105-102-108

E. A-FREDERIKSBURG

OBSERVED 18 JULY 005

ESTIMATED 19 JULY 009

PREDICTED 20-22 JULY 008-008-007

SOLTERWARN

SPAN

BT