

KBOU

HAUS BOU 270500

FROM SPACE DISTURBANCE FORECAST CENTER BOULDER COLO

SDF NUMBER 147A ISSUED 0500Z 27 MAY 1971

CLASS C FLARES ARE LIKELY DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY HAS REMAINED AT A LOW LEVEL DURING THE PAST SEVEN HOURS, AND NO FLARES HAVE BEEN REPORTED. DEVELOPMENT IS CONTINUING IN THE NEW REGION AT S07W23, WHERE RECENT SPOT GROWTH AND A COMPLEX FILAMENT STRUCTURE HAVE BEEN OBSERVED. SLIGHT SPOT GROWTH HAS OCCURRED IN THE N12E24 REGION, BUT THE INTENSITY OF THE PLAGE IS LOW. SMALL SURGES HAVE BEEN OBSERVED ON THE EAST LIMB AT NE05-10 WHERE A PREVIOUSLY ACTIVE REGION IS EXPECTED TO RETURN WITHIN THE NEXT 24 HOURS. THE GEOMAGNETIC FIELD IS QUIET.

B. NO CHANGE.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 27 MAY/0000Z ENDING 29 MAY/2400Z.

CLASS M OR GREATER 40/45/45

CLASS X 05/05/05

PROTON EVENTS 02/05/05

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KBOU

HAUS BOU 272200

FROM SPACE ENVIRONMENT SERVICES CENTER BOULDER COLO

SDF NUMBER 147B ISSUED 2200Z 27 MAY 1971

A CLASS M FLARE IS EXPECTED DURING THE NEXT 24 HOURS.

A. SOLAR ACTIVITY IS LOW. DRAMATIC GROWTH HAS OCCURRED IN THE S08W34 REGION THE PAST 24 HOURS. THE REGION HAS A SPOT CLASS/AREA OF APPROXIMATELY D/100. MAGNETIC COMPLEXITIES EXIST IN THE CENTRAL SPOTS WHERE A DELTA CONFIGURATION AND ISOLATED POLE HAVE BEEN DETERMINED BY SPECTROSCOPIC ANALYSIS. PLAGE HAS BEEN FLUCTUATING NEAR FLARE BRIGHTNESS CLOSE TO THESE MAGNETIC ANOMALIES. THE N12 E15 REGION APPEARS TO HAVE REACHED ITS PEAK DEVELOPEMENT AND NOW IS STABILIZING. THE PLAGE HAS BECOME WEAK AND DIFFUSE. CONTINUOUS SURGE ACTIVITY AT NE 10-15 IS ACCOMPANYING A RETURNING REGION.

B. THE SW REGION IS EXPECTED TO DOMINATE SOLAR ACTIVITY THE NEXT 72 HOURS, PRODUCING AN OCCASIONAL CLASS M EVENT. SMALL FLARES CAN BE EXPECTED FROM THE N12E15 REGION. SO FAR NO MAJOR ACTIVITY HAS BEEN OBSERVED FROM THE NE LIMB REGION AND THIS WILL BE EXPECTED TO CONTINUE UNTIL A DISK ANALYSIS CAN BE MADE. PIONEER SATELLITES INDICATE A SOLAR WIND ENHANCEMENT THAT WILL DISTURB THE GEOMAGNETIC FIELD STARTING APPROXIMATELY 29/1200Z.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 28 MAY/0000Z ENDING 30 MAY/2400Z.

CLASS M OR GREATER 60/65/70

CLASS X 05/10/15

PROTON EVENTS 10/15/20

D. OTTAWA 10.7 CM FLUXES FOR 27/1400Z - 27/1700Z - 27/2000Z WERE 101, 101, AND 100 RESPECTIVELY. PREDICTED 10.7 CM FLUX FOR 28-30 MAY IS 105/110/115.

E. MAGNETIC A-FREDRICKSBURG FOR 26 MAY WAS 12. FOR 27 MAY ABOUT 07 PREDICTED AP FOR 28-30 MAY, 08/16/30.

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