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PP KGFF

DE ROU 201710Z

HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER FSSA BOULDER COLO

SDF NUMBER 267A ISSUED 1700Z MAY 20 1969

CLASS M FLARES ARE EXPECTED DURING THE NEXT 12 HOURS.

A. CLASS M EVENTS WERE OBSERVED AT 19/2308Z AT N17W57, IMPORTANCE SN, 20/0034Z AT N08E61, IMPORTANCE 1B AND 20/0308Z AT N18W59, IMPORTANCE SN. THE MOST SIGNIFICANT CHANGE ON THE DISK HAS BEEN CONSIDERABLE SPOT GROWTH AT S12E26 WHICH IS NOW CLASSIFIED AS D/100. THIS REGION IS WELL DEVELOPED IN H-ALPHA AND HAS TWO E-W PARALLELED FILAMENTS. IT ALSO SHOWS PENUMBRAL GROWTH THROUGHOUT THE REGION. THE REGION AT N10E53 IS STILL VERY BRIGHT IN H-ALPHA AND HAS SHOWN SPOT GROWTH IN THE SE TRAILER PORTION. THE LARGE, INACTIVE REGION AT S15E46 IS ALSO SHOWING PENUMBRAL GROWTH. NEW SPOT REGIONS ARE AT N12E36, C-TYPE, AND AT S16E05, B-TYPE. THE GEOMAGNETIC FIELD IS CURRENTLY QUIET.

B. THE REGION AT S12E26 SHOULD CONTINUE TO GROW AND BECOME A MAJOR CLASS M PRODUCER IN 24-48 HOURS. CONTINUED CLASS M ACTIVITY IS EXPECTED FROM THE N10E53 AND N17W53 REGIONS.

C. FLARE AND PROTON EVENT PROBABILITIES FOR THE NEXT THREE 24 HOUR PERIODS BEGINNING 20/1700Z ENDING 23/1700Z.

CLASS M OR GREATER 85/85/85

CLASS X 20/20/25

PROTON EVENTS 10/10/10

D. OTTAWA 10.7 CM FLUX TODAY IS 162. PREDICTED 160/160/160.

E. KP ESTIMATED FOR 1200-1500Z WAS 1. KP FORECAST FOR NEXT 24 HOURS PER KP 15.3 2/2/2/2/2/2/2.

SOLTERWAPN

BT

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DE ROU 202330Z

THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER FSSA BOULDER COLO

SDF NUMBER 267B ISSUED 2300Z 20 MAY 1969

CLASS M FLARES ARE EXPECTED IN THE NEXT 18 HOURS.

A. THE REGION CURRENTLY AT N10E48 IS REPORTED TO BE A BETA/GAMMA WITH EMBEDDED DELTA BY MOUNT WILSON. THE PENUMBRAL STRUCTURE IS NARROWLY NECKED, IMPLYING COMPARATIVELY SMALL FIELD GRADIENTS. THE REGION AT S12E21 CONTINUES TO SHOW MORE COMPLEX, WITH ARCH FILAMENT STRUCTURE APPARENT IN THE CORRIDOR BETWEEN THE PORTIONS OF THE GROUP AND THE BULK OF THE SPOTS. A FLARE FROM THIS REGION BEGINNING 20/2228Z APPEARS TO HAVE BEEN A CLASS M EVENT, AND A FLARE BEGINNING 20/1930Z MAY HAVE BEEN ANOTHER CLASS M EVENT. BOTH WERE LOCATED IN THIS REGION. THE NEW REGION AT N11E31 IS IDENTIFIED AS BIPOLAR AND GROWING. THE GEOMAGNETIC FIELD IS RELATIVELY QUIET, ALTHOUGH A POLAR DISTURBANCE CONTINUES. PROTON FLUXES NEAR EARTH ARE AT BACKGROUND.

B. CLASS M FLARES ARE EXPECTED FROM N10E48 AND S12E21 REGIONS. SECTIONS C AND D REMAIN UNCHANGED FROM SDF 267A.

E. MAGNETIC A-FREDERICKSBURG FOR 19 MAY WAS 09. FOR 20 MAY ABOUT 08. PREDICTED AP FOR 21-23 MAY 10/10/10.

BT