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PP KGFF
DE POH 641776Z
HERE IS THE MSG FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER FSSA BOULDER COLO
SDF NUMBER 221A ISSUED 1700Z 24 APRIL 1969
CLASS M FLARES ARE EXPECTED IN THE NEXT 12 HOURS.

A. HIGHLIGHTS FOR THE PERIOD 27 MARCH-23 APRIL 1969 CLM ACTIVITY
THIS WEEK CONTINUED TO BE DOMINATED BY THE REGION AT N21. ON THE
27TH, THE REGION PRODUCED ITS FOURTH CLASS X FLARE, AS DESCRIBED
IN LAST WEEKS SUMMARY. THE FIFTH AND SIXTH CLASS X FLARES FROM
THIS REGION WERE PRODUCED ON WEST LIMB AND BEHIND WEST LIMB,
RESPECTIVELY AT 23/0058Z (OPTICALLY 1N) AND 30/0248Z. THIS LAST
EVENT WAS PROBABLY THE MOST ENERGETIC EVENT OBSERVED THIS CYCLE.
THE RADIO FLUX WAS IN EXCESS OF 10,000 FLUX UNITS AT 10CM, AND
PROTON EMISSION IS REPORTED TO HAVE BEEN OBSERVED BY PIONEER
SATELLITES BEGINNING 8 MINUTES AFTER THE ONSET OF THE RADIO BURST.
NEUTRON MONITOR COUNT RATES BEGAN SLOW ENHANCEMENT SEVERAL HOURS
LATER, AND SOFTER PROTON FLUXES AND DETECTION OF POLAR CAP
ABSORPTION FOLLOWED. THE PCA WAS A SMALL EVENT, WITH LESS THAN
2DB ABSORPTION REPORTED AS THE MAXIMUM AT THULE. PIONEERS IN THE
ALASKAN CHAIN GENERALLY REPORTED HIGHER ABSORPTIONS BEGINNING AT
LOCAL SUNRISE, WITH 3.6DB THE MAXIMUM REPORTED, BUT THE PROFILE
IN LATITUDE SUGGESTS CONTAMINATION BY OUTER-BELT PRECIPITATION.
ABSORPTION CONTINUED FOR AT LEAST 48 HOURS. THE SUNSPOT REGION
AT N10 WHICH HAS BEEN SO IMPRESSIVE IN SIZE (PERHAPS 1700 MILLIONTHS
AT MAXIMUM DEVELOPMENT ON THE 31ST) AND IN MAGNETIC COMPLEXITY
(WITH SEVERAL DELTA CONFIGURATIONS) HAS PRODUCED ONLY CLASS M
EVENTS (SIX, NONE OF OPTICAL GREATER THAN ONE). ALL OF THESE
WERE ON 29 MARCH. THE REGION IS NOW DECAYING. AN ADDITIONAL CLASS
M FLARE (OPTICAL IMPORTANCE 2N) WAS OBSERVED IN THE N25 REGION
BEGINNING 02/1817Z WHICH HAS BEEN DECAYING SINCE ROTATING ONTO
THE VISIBLE DISK ON 24 MARCH. VERY LITTLE RADIO OR X-RAY EMISSION
WAS OBSERVED FROM THIS EVENT. TWO REGIONS HAVE ROTATED ONTO THE
VISIBLE DISK IN THE LAST TWO DAYS; A NEW REGION AT N11 AND A
RETURNING SEAT OF OLD ACTIVITY AT S17. THE LATTER IS THE REGION
ASSOCIATED WITH THE EVENTS OF LATE OCTOBER. PIONEER 7 DATA
INDICATES THAT ONE OR THE OTHER OF THESE REGIONS MAY HAVE BEEN
ACTIVE ON THE LAST SEVERAL DAYS WHILE STILL BEHIND THE LIMB.
THE GEOMAGNETIC FIELD HAS BEEN ONLY SLIGHTLY DISTURBED WITH NO
STORM RESULTING.

B. FORECAST FOR THE WEEK 05 APRIL-11 APRIL 1969 CLM SOLAR ACTIVITY
IS EXPECTED TO DECLINE. THE REGION AT N10 IS STILL IMPRESSIVE IN
SIZE AND IN BRIGHTNESS AT 9.1CM RADIO WAVELENGTH. THE CURRENT
TREND OF THIS REGION INDICATES DIMINISHED, BUT STILL MAJOR
POTENTIAL. EASTERN REGIONS APPEAR MINOR, BUT FURTHER EVALUATION
IS REQUIRED.

C. 28-DAY FORECAST FOR 05 APRIL-03 MAY 1969 CLM SOLAR ACTIVITY
IS EXPECTED TO BE SOMEWHAT ENHANCED DURING THE PERIOD 11 APRIL
THROUGH 20 APRIL.

D. DAILY FORECASTS FOR 05-07 APRIL AND EXPECTED MEAN FORECAST
FOR 08-11 APRIL 1969 CLM

DAILY PERCENT PROBABILITIES FOR FLARES AND PROTON EVENTS
CLASS M OR GREATER 72-76-73 /60/
CLASS X 20-23-20 /10/
PROTON EVENTS 20-22-20 /10/

OTTAWA 10.7 CM FLUX TODAY IS 177. PREDICTED 170-160-155 /150/.

E. N/A.

F. KP ESTIMATED FOR 1200-1500Z WAS 2. KP FORECAST FOR NEXT 24
HOURS PER KP 15.3; 2-2-2-2-2-2-2-2-2.

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THIS IS THE MESSAGE FOR REFILE

FROM SPACE DISTURBANCE FORECAST CENTER ESSA BOULDER COLO
SDF NUMBER 221B ISSUED 2300Z 4 APRIL 1969
CLASS M FLARES ARE EXPECTED DURING THE NEXT 18 HOURS.
A. ONLY CLASS C SUBFLARES HAVE BEEN OBSERVED DURING THE PAST 6
HOURS. MINOR SPOT GROWTH HAS OCCURRED JUST EAST OF THE SPOT GROUP
AT N11E52. ALL OTHER REGIONS ARE STABLE.
SECTIONS B C AND D REMAIN UNCHANGED FROM SDF 221A.
E. MAGNETIC A-FREDERICKSBURG FOR 3 APRIL WAS 12. FOR 4 APRIL ABOUT
10. PREDICTED AP FOR 5-7 APRIL 10/10/10.
BT