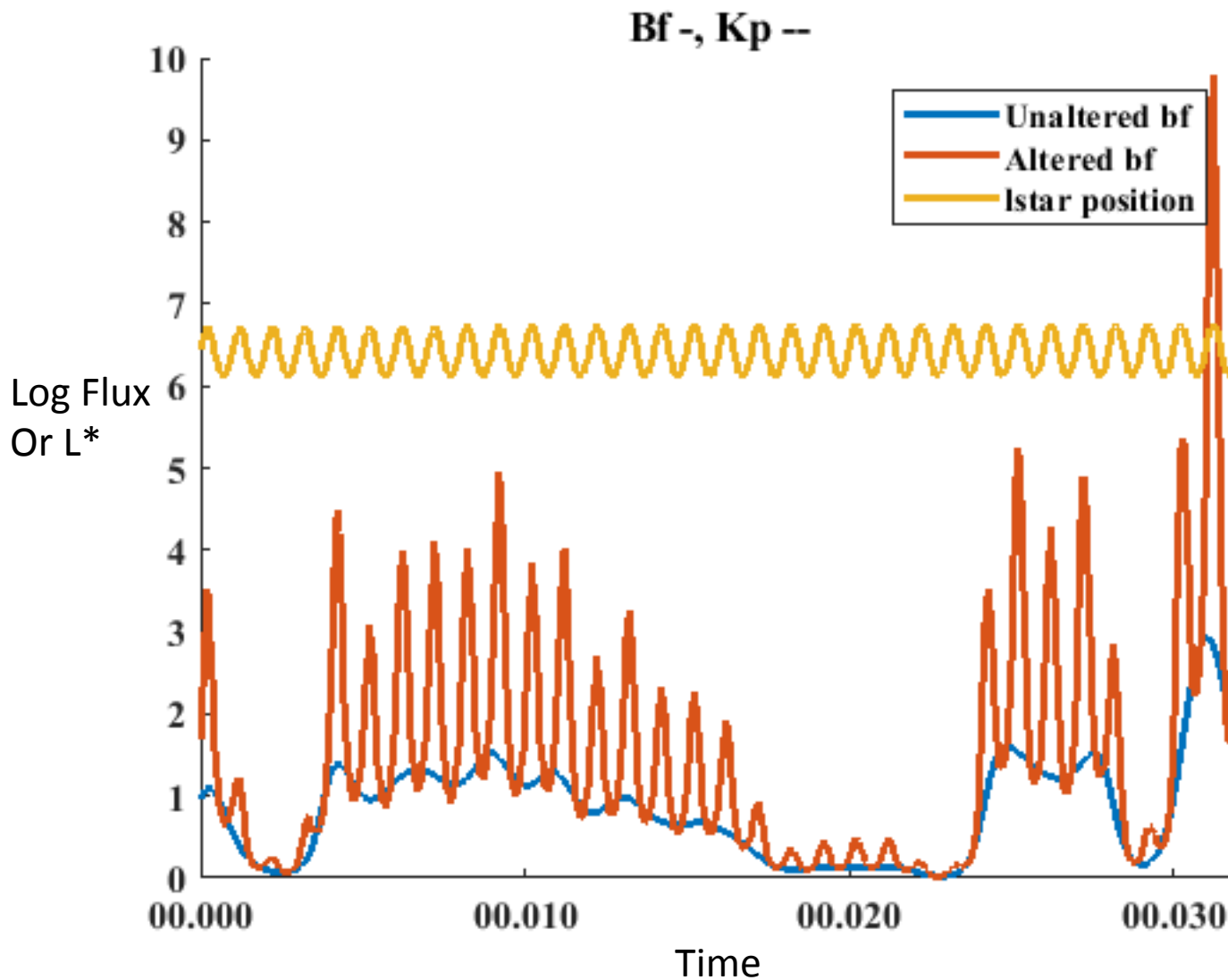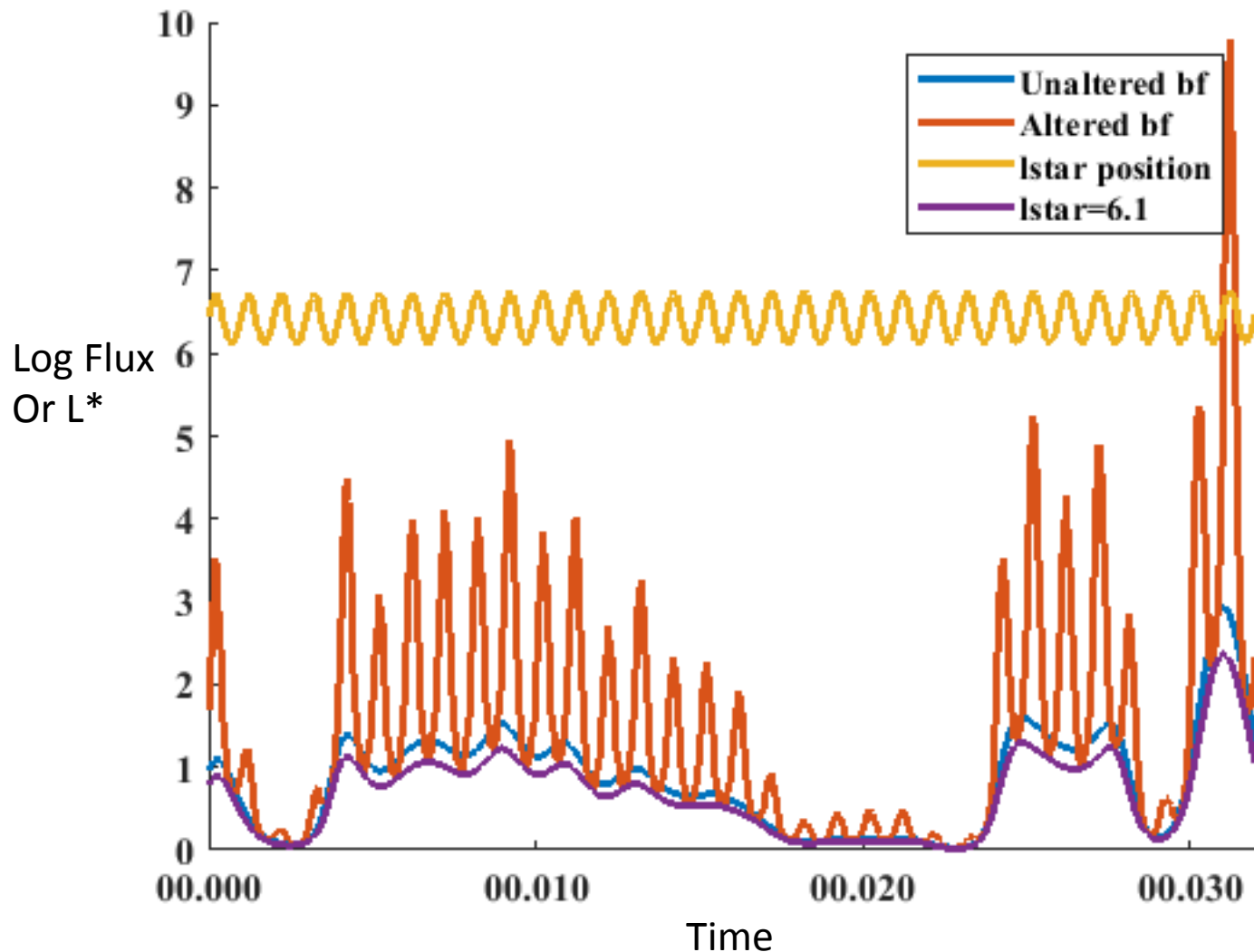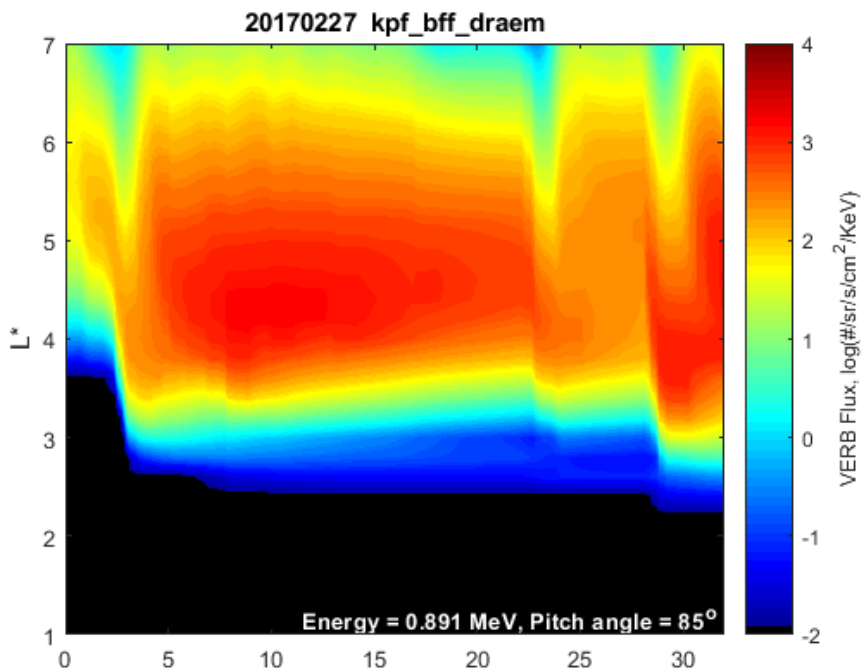# PRediction Of Geospace Radiation Environment and Solar wind parameterS
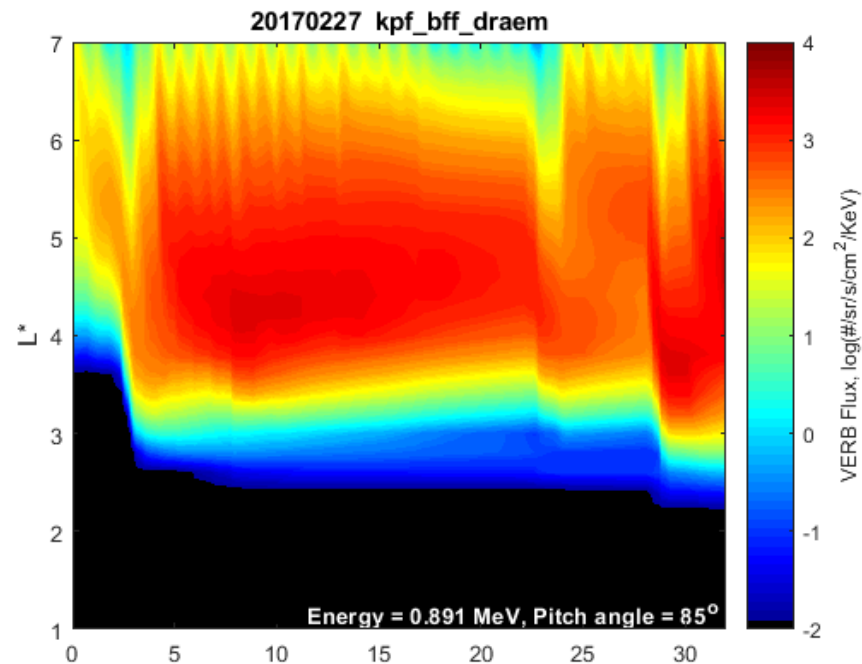
Task 6.3

Overview

- VERB requires a value for the electron flux at its outer boundary.
- Value may be fixed or variable (from file).
- Task 6.1 has produced models that generate accurate estimates of the electron fluxes at GEO.
- These estimates can be used to produce the outer boundary flux required by VERB.
- However, these values need translating from GEO (L=6.6) to L*=7
- Initial model coupling assumed fixed value of L* for GEO (L*=6.2)
- The value of L* for GEO is not constant, and can vary with geomagnetic activity
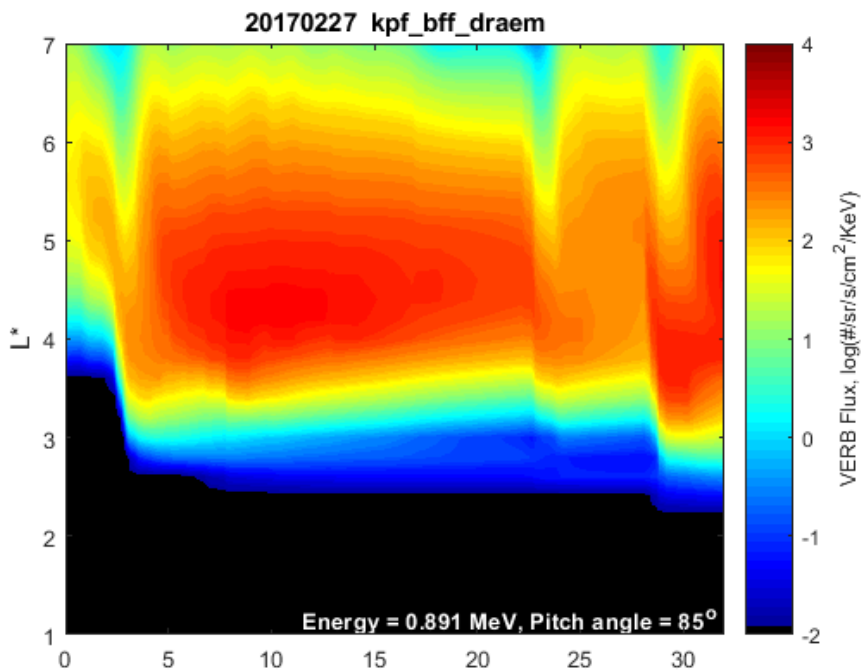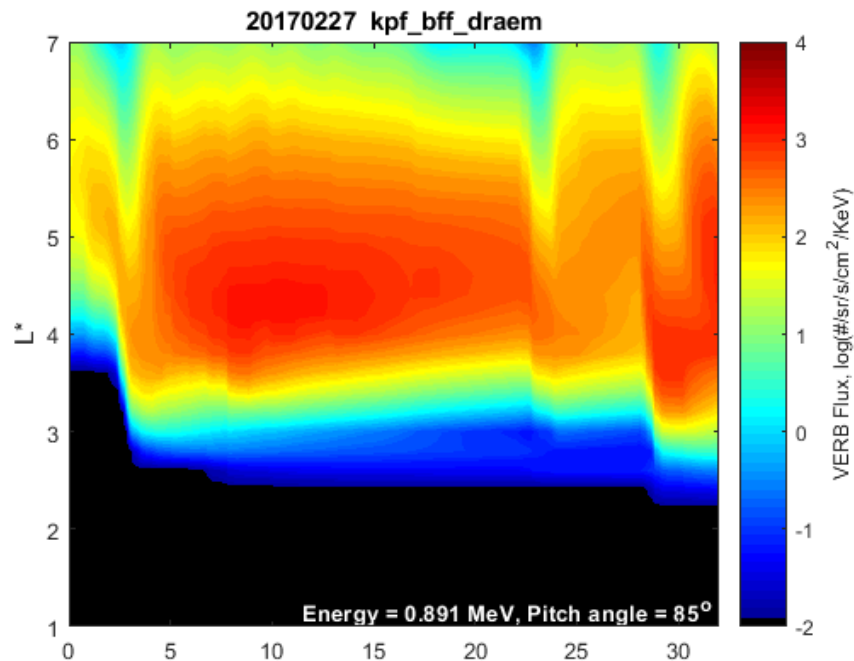- Task 6.3 investigated effects of introducing a variable L*

GOES 13 results

GOES 13 results

GOES 13 results

Fixed L*=6.2

Variable L*

GOES 13 results

Fixed L*=6.2

Fixed L*=6.1