The magnetic field perturbation vectors ($B_N$ and $N_E$) are coloured by their community structure during a substorm (16/03/1997). Each subplot represents a snapshot of the nightside community structure between onset and the time of maximum auroral expansion. The circles represent ground magnetometers in MLT with the line representing the $B_{N,E}$ vector. Black magnetometers are not connected to the time-varying network. Communities are small and separate at onset. At the time of maximum expansion the graph is one community which spans the entire nightside (green).
The magnetic field perturbation vectors are coloured by their community structure during a substorm (16/03/1997). The maps represent a snapshot of the community structure at onset and the time of maximum auroral expansion. The circles represent ground magnetometers in local time with the line representing the magnetic field vector. Black magnetometers are not connected to the time-varying network. Communities are small and separate at onset. At the time of maximum expansion the graph is one community which spans the entire nightside (green).