

Table 1. Input parameters used in the Equations of sections 2, 3, and 4 to calculate the chorus wave-particle time of interaction and the pitch angle diffusion coefficient for cases 1 to 4. $K_{res} = 1$ MeV and the initial equatorial pitch angle is 60° . For each case, the first (second) line shows results for parallel (antiparallel) propagating wave and electron. The subscript r and nr means relativistic and non-relativistic, respectively.

Input parameters					Results			
Cases	B_0 [nT]	n_e [cm^{-3}]	B_w [nT]	τ [ms]	T_r [ms]	T_{nr} [ms]	D_{aa} [s^{-1}]	D_{aa}^{nr} [s^{-1}]
1	234	2.3	0.16	0.2	0.04	0.02	7.87	1.67
					0.03	0.01	4.32	0.80
2	166	3.0	0.20	1.80	0.37	0.14	9.1	1.68
					0.33	0.14	6.8	2.76
3	112	9.1	0.40	2.0	0.10	0.06	2.09	1.45
					0.11	0.06	2.55	1.28
4	86	4.3	0.24	5.0	0.41	0.16	1.95	0.54
					0.42	0.16	2.08	0.43

Cases 1 (Tu et al., 2014) - from 8 October 2012 (dropout). Cases 3 and 4 (Liu et al., 2020) - 22 December 2014, 00:00 - 06:00 (UTC)