

This data file contains results of the isentropic cross-tropopause fluxes for 370 K, 350 K and 330 K.

Contact [pjing@luc.edu](mailto:pjing@luc.edu)

Unit of Potential Temperature (PT) K

Units of Annual Fluxes: 1.0E15 kg/yr

Units of Monthly Mean Fluxes: 1.0E14 kg/day

PT	Year	AnnualFlux_TS	AnnualFlux_ST	PT	Year	AnnualFlux_TS	AnnualFlux_ST	PT	Year	AnnualFlux_TS	AnnualFlux_ST
370	1981	20.7971	25.6638	350	1981	37.1313	51.6171	330	1981	184.572	274.036
370	1982	20.7596	22.6144	350	1982	38.8143	56.244	330	1982	161.263	250.817
370	1983	21.2676	25.8198	350	1983	38.5808	61.9673	330	1983	184.21	261.555
370	1984	23.9223	26.8041	350	1984	43.0108	58.9078	330	1984	173.13	262.909
370	1985	22.0512	26.5847	350	1985	38.703	44.6935	330	1985	184.747	259.358
370	1986	22.7445	29.1505	350	1986	38.3725	43.8683	330	1986	172.467	247.795
370	1987	17.8473	23.035	350	1987	37.9649	41.7405	330	1987	158.265	238.749
370	1988	20.5759	27.9301	350	1988	40.1109	59.2103	330	1988	177.568	267.207
370	1989	22.0339	27.4853	350	1989	38.6455	49.482	330	1989	185.596	283.59
370	1990	22.8071	26.6837	350	1990	39.4101	54.2905	330	1990	183.161	250.297
370	1991	21.9377	28.9019	350	1991	40.5923	48.7732	330	1991	166.456	227.37
370	1992	20.7605	26.7394	350	1992	33.6219	46.1693	330	1992	162.315	247.51
370	1993	18.4046	22.1465	350	1993	39.4272	42.378	330	1993	161.068	228.532
370	1994	19.7202	24.1453	350	1994	41.7591	44.9549	330	1994	161.769	265.121
370	1995	18.0679	21.3548	350	1995	35.623	53.9245	330	1995	154.758	249.648
370	1996	21.1161	26.6357	350	1996	30.7336	47.7298	330	1996	152.505	206.268
370	1997	22.0292	24.1018	350	1997	37.7595	42.1596	330	1997	169.774	249.973
370	1998	17.6143	24.6099	350	1998	39.2879	51.7392	330	1998	166.716	246.178
370	1999	22.2401	31.0961	350	1999	43.2411	53.2949	330	1999	166.093	245.485
370	2000	20.9924	28.1382	350	2000	38.1936	50.6306	330	2000	156.622	239.514
370	2001	23.7695	27.828	350	2001	42.022	64.2024	330	2001	176.383	246.92
370	2002	21.0328	26.1997	350	2002	42.8271	49.8347	330	2002	170.025	268.674
370	2003	20.4549	26.9656	350	2003	39.2708	51.7501	330	2003	167.609	245.077
370	2004	23.0108	27.2591	350	2004	39.0699	51.2306	330	2004	162.361	258.16
370	2005	20.4433	29.4622	350	2005	38.5545	60.0106	330	2005	180.905	258.565
370	2006	20.4218	24.5661	350	2006	41.9676	55.9804	330	2006	165.673	287.286
370	2007	20.1216	25.7408	350	2007	38.1909	59.0314	330	2007	166.214	280.945
370	2008	22.5121	27.7274	350	2008	45.1514	62.7838	330	2008	182.667	280.821

370	2009	18.7399	28.9134	350	2009	44.3779	66.6829	330	2009	172.924	271.665
370	2010	18.354	25.4579	350	2010	43.9518	74.6559	330	2010	181.333	273.503
370	2011	22.5601	27.7907	350	2011	42.528	72.2654	330	2011	165.294	262.513
370	2012	21.4884	25.396	350	2012	47.0326	63.9366	330	2012	190.438	274.9
370	2013	20.1292	28.0543	350	2013	41.5942	67.9885	330	2013	174.502	278.446
370	2014	18.2772	23.9687	350	2014	38.5844	53.3978	330	2014	180.672	272.529
370	2015	20.1429	24.8488	350	2015	43.8558	67.3497	330	2015	173.773	286.823

PT	Month	MonthlyFlux_TS	MonthlyFlux_ST	PT	Month	MonthlyFlux_TS	MonthlyFlux_ST	PT	Month	MonthlyFlux_TS	MonthlyFlux_ST
370	1	0.354511	0.40282	350	1	0.603251	0.909678	330	1	1.02482	0.987086
370	2	0.350589	0.40484	350	2	0.510492	0.840778	330	2	0.895479	0.820605
370	3	0.326012	0.298796	350	3	0.595046	0.680115	330	3	1.23632	1.14991
370	4	0.339743	0.292226	350	4	0.717586	0.597435	330	4	2.66526	2.24571
370	5	0.530142	0.455688	350	5	0.955468	0.930843	330	5	5.94685	5.99573
370	6	0.725699	0.923518	350	6	1.46159	1.98736	330	6	14.3591	23.6582
370	7	1.04563	1.5153	350	7	3.01843	5.07384	330	7	12.9907	30.8795
370	8	0.91171	1.4872	350	8	2.58134	4.51235	330	8	11.8229	25.9906
370	9	0.82406	1.24806	350	9	1.50034	2.35824	330	9	10.4747	15.1424
370	10	0.707001	0.852101	350	10	1.08927	1.26781	330	10	5.10928	6.65757
370	11	0.488184	0.567966	350	11	0.722531	0.835115	330	11	2.10833	2.22463
370	12	0.410317	0.43599	350	12	0.649673	0.772073	330	12	0.998456	1.11221