TABLE 1. Spectral Bands, Absorbers, and Longwave Radiation Fluxes at the Top of Atmosphere Calculated from the Line-by-Line Method and the Parameterization for a Midlatitude Summer Atmosphere. Units are W m^{-2}.

Band	cm^{-1}	Absorber	Line-by-Line	Model
1	0-340	H_2O(line)	34.30	34.10
2	340-540	H_2O(line)	60.73	60.23
3	540-800	H_2O(line+continuum)+CO_2+N_2O	65.87	66.70
		H_2O(line+continuum)+CO_2+N_2O+O_3	65.44	
4	800-980	H_2O(line+continuum)+CO_2	58.25	58.28
5	980-1100	H_2O(line+continuum)+O_3+CO_2	21.55	21.13
6	1100-1250	H_2O(line+continuum)+CH_4+N_2O	21.00	20.92
		H_2O(line+continuum)+CH_4+N_2O+O_3	20.57	
7	1250-1380	H_2O(line)+CH_4+N_2O	12.40	12.28
8	1380-1900	H_2O(line)	7.38	7.33
9	1900-3000	H_2O(line)	5.11	4.90
		H_2O(line)+CO_2	4.00	
Total	0-3000	Major and trace gases	286.59	285.87
			284.62	