

Table 1: Parameters of the active layer for the exponential dependence of methane generation rate on depth.

\tilde{v}	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.15	1.2	1.3	1.4
$\tilde{C}_1 _{z \rightarrow \tilde{h}}$	1.0	1.0	0.99	0.99	0.98	0.95	0.92	0.87	0.808	0.74	0.67	0.605	0.573	0.544	0.488	0.439
$\tilde{C}_2 _{z \rightarrow \tilde{H}}$	0.0	0.0	0.0	0.0	0.01	0.0215	0.04	0.06	0.09	0.12	0.15	0.182	0.197	0.211	0.236	0.259
\tilde{h}	0.663	0.678	0.695	0.712	0.730	0.750	0.772	0.795	0.821	0.848	0.879	0.914	0.933	0.953	0.997	1.048
Tangent $\ln \tilde{h} \div \ln(1-r_2)$	0.5	0.5	0.53	0.55	0.57	0.59	0.63	0.66	0.7	0.77	0.87	0.97		0.88		
$\tilde{Z}_{0.5}$	0.55	0.55	0.59	0.6	0.65	0.65	0.66	0.65	0.61	0.58	0.57	0.55	0.53	0.50	0.47	0.45
\tilde{t}_1	0.773	0.812	0.843	0.875	0.905	0.926	0.93	0.933	0.926	0.881	0.805	0.79	0.726	0.742	0.702	0.66
$-\tilde{J}_{1D} = \tilde{A}_1$	1.2	1.17	1.139	1.108	1.076	1.042	1.006	0.968	0.927	0.883	0.839	0.796	0.774	0.753	0.713	0.675
$\tilde{J}_{2D} = -\tilde{A}_2 q_2$	0.263	0.25	0.241	0.230	0.217	0.205	0.191	0.177	0.160	0.142	0.125	0.108	0.099	0.091	0.076	0.062
\tilde{J}_1	\tilde{H}	10.0	5.0	3.33	2.5	2.0	1.67	1.43	1.250	1.11	1.0	0.909	0.870	0.833	0.769	0.714
\tilde{J}_{1B}	$\tilde{H}^{-1.2}$	8.83	3.86	2.23	1.43	0.96	0.66	0.46	0.32	0.23	0.16	0.114	0.095	0.80	0.056	0.039
X_{1B}	1	0.97	0.94	0.91	0.67	0.82	0.78	0.72	0.67	0.62	0.56	0.513	0.49	0.468	0.426	0.389
Y_{1B}	$1 - 1.2/\tilde{H}$	0.88	0.77	0.67	0.57	0.48	0.40	0.32	0.259	0.21	0.16	0.125	0.11	0.096	0.073	0.055

Table 2: Parameters of wetlands calculated from data²³

N of place	Latitude °N	v , cm^{-1}	$1/v$, cm	$J_0 \cdot 10^{12}$, mole/ $(\text{cm}^2 \cdot \text{s})$	$W_{10} \cdot 10^{12}$, mole/ $(\text{cm}^3 \cdot \text{s})$	l , cm	\tilde{v}	\tilde{h}	h , cm	Part of bubble flux
1	61	0.090	11.1	14.10	1.27	4.14	0.37	0.73	3.2	0.54
2	54	0.12	8.2	1.90	0.23	9.7	1.16	0.97	9.9	0.14
3	56	0.069	14.5	7.40	0.51	6.6	0.46	0.75	5.1	0.51
4	49	0.085	11.7	5.62	0.48	6.7	0.57	0.77	5.5	0.42
5	61	0.074	13.6	13.16	0.97	4.7	0.35	0.72	3.6	0.62
6	51	0.078	12.8	1.23	0.096	15.0	1.17	0.96	15.2	0.14
7	59	0.051	19.7	2.51	0.13	12.9	0.66	0.8	10.0	0.36
8	54	0.067	15.0	1.86	0.12	13.5	0.90	0.85	11.8	0.21
9	45	0.085	11.7	0.21	0.018	34.7	2.95	no bubbles	no bubbles	0
Average value for places 1-8		0.08	13.3	6.0	0.50	9.2	0.71	0.82	8.0	0.37