

Supplementary Material for “Simulating carbon dioxide (CO2) from reservoir ecosystems using artificial neural network approach”

In this data set, most CO₂ fluxes and related characteristics were based on data collection by Deemer et.al [1] in 2016. Only the studies that directly measured areal CO₂ flux or modeled fluxes by thin boundary layer equations based on measurements of surface CO₂ concentrations were collected. For each study, the arithmetic mean of areal reservoir CO₂ flux and water quality parameters (if available) was obtained from various sites. Deemer et.al[1] offered the average values of areal fluxes and age, in cases where more than one study measured CO₂ fluxes from the same system in different years. However, the CO₂ fluxes of the same reservoirs with different age were needed in our study. For these data, part of them were collected from the study of Barros et.al[2] in 2011, and the others were obtained from original documents. CO₂ emission monitoring data from reservoirs and relevant parameters in some latest literatures were also assembled. All flux estimates were based on >2 sampling sites and/or >2 sampling times per system in the same year. Another important parameter, the net primary productivity of potential vegetation (NPP0) in the reservoir’s location, was also extracted from the map of the human appropriation of net primary production (HANPP)[25].

Table S1. CO₂ emission measurements and other data of reservoirs analyzed in the paper.

Reservoir System	Latitude (°)	Longitude (°)	Region	Country	CO ₂ flux (mg C m ⁻² d ⁻¹)	Age (yrs)	Chlorophyll a (ug L ⁻¹)	Water Temperature (degrees C)	Mean Depth (m)	Surface Area (km ²)	Catchment Area (km ²)	Volume (km ³)	Residence Time (days)	DOC (mg L ⁻¹)	TP (ug L ⁻¹)	NPP0 (g C m ⁻² yr ⁻¹)	Citations for CO ₂ data
Acton Reservoir	39.57	-84.73	Temperate	United States	31.80	50.00	59.00		3.90	2.50	257.00		292.00	3.70	121.00	672.67	1
Alamo Lake	34.25	-113.50	Temperate	United States	-199.22	35.00	3.58	23.80	5.00	4.22				6.08	20.00	123.18	1
Allatoona	34.14	-84.64	Temperate	United States	446.38	63.00	4.40	22.25	9.20	49.00		0.45	36.00			674.32	1
Alouette Lake	49.32	-122.43	Temperate	Canada	-111.00	74.00		20.30	244.00	16.00						608.82	2
Al-Wihdeh	32.73	35.87	Temperate	Jordan/Syria	1445.45	3.00		16.40	14.02	0.82		0.01	247.00			336.76	1
Angerman	63.19	17.23	Boreal	Sweden	30.80	70.00				854.00				3.00		545.19	1
Apache Lake	33.57	-111.25	Temperate	United States	-252.00	77.00	4.25	20.80	73.00	4.21				4.25	18.00	196.67	1
Arivaca Lake	31.52	-111.25	Temperate	United States	11.46	33.00		24.30	8.50	0.13						224.55	1
Arrow-Lower	59.63	-118.15	Boreal	Canada	-281.50	33.00		19.90	74.20	520.00		38.60				522.51	2
Arrow-Narrows	49.43	-123.25	Temperate	Canada	354.50	22.00		18.70	74.20	520.00		38.60				603.06	2
	49.43	-123.25	Temperate	Canada	-265.10	33.00		18.70	74.20	520.00		38.60				603.06	2
Arrow-Upper	50.32	-117.90	Boreal	Canada	283.40	33.00		12.90	16.85	520.00						527.97	2
Baihua	26.68	106.53	Subtropical	China	276.00	47.00		14.90	12.00	14.50	1895.00	0.22				687.26	1
Baker Reservoir	37.38	-113.64	Temperate	United States	223.79	53.00	0.35	18.10	5.00	0.01						248.97	1
Balbina	-1.92	-59.47	Tropical	Brazil	912.00	17.00		30.50	7.40	1960.00	70600.00	17.50	365.00			980.89	3
	-1.92	-59.47	Tropical	Brazil	3776.00	18.00		30.54	10.00	1770.00	70600.00		365.00	4.90		980.89	4
	-1.92	-59.47	Tropical	Brazil	3800.00	20.00			7.40	1770.00	18862.00	18.00	365.00			980.89	2
Baoshan	24.07	121.03	Subtropical	Taiwan	-80.14	6.00	8.65	29.56	15.54	1.93		0.03	204.00		11.50	759.11	1
Barra Bonita	-22.52	-48.58	Tropical	Brazil	1036.40	42.00	7.85		11.10	324.00	27000.00	4.00	30.00		103.00	1138.20	2
	-22.52	-48.58	Tropical	Brazil	1087.00	41.00	7.85		11.10	312.00		4.00	30.00		103.00	1138.20	5
Bartlett Lake	33.82	-111.62	Temperate	United States	97.98	64.00		14.30		3.30						223.67	1
Baskatong (Mercier)	46.72	-75.80	Temperate	Canada	316.60	70.00		13.80	6.30	413.00	15671.00	2.60	13140.00			630.69	2
Bersimis	49.65	-70.15	Temperate	Canada	407.70	43.00		14.00	2.00	798.00		1.60				574.88	2
	49.65	-70.15	Temperate	Canada	288.00	48.00			2.00							574.88	6
Bill Evans	32.87	-108.58	Temperate	United States	86.78	35.00		13.00	5.00	0.25						216.69	1
Bornos	36.78	-5.75	Temperate	Spain	498.00	51.00	7.00		9.40	23.40	1344.00	0.22		6.10	53.70	590.08	1
Brantley Lake	32.54	-104.38	Temperate	United States	-63.86	23.00			25.32	12.43						137.58	1
Brisay/Caniapiscau	54.67	-70.43	Boreal	Canada	182.50	19.00			7.90	4318.00		34.30	803.00			404.72	2
Bunch Reservoir	34.03	-109.43	Temperate	United States	39.85	74.00		9.00	3.00	0.03						360.00	1

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Buntzen	49.35	-122.85	Temperate	Canada	384.80	88.00		15.90	30.00	2.00						602.00	2
Burr Oak Reservoir	39.53	-82.05	Temperate	United States	91.30	57.00	21.00		4.50	2.70	86.00		65.70	3.30	44.00	631.19	1
Cabonga	46.80	-75.80	Temperate	Canada	376.60	79.00		17.30	3.00	434.00	2616.00	1.30	584.00			622.17	2
	46.80	-75.80	Temperate	Canada	381.80	70.00			3.00	434.00		1.30	584.00			622.17	2
Cahora Bassa	-15.59	32.70	Tropical	Zambia/Zim babwe	-356.00	38.00			20.90	2675.00	1067073.00	52.00				612.07	1
Caniapiscau	54.40	-69.86	Boreal	Canada	182.45	19.00		17.10	12.40							440.46	1
Cat Arm	50.08	-57.58	Boreal	Canada	615.50	16.00		17.80	23.30	43.00		1.00				551.11	2
Chippewa Lake	46.18	-90.98	Temperate	United States	106.40	73.00			1.52	61.00						627.47	2
Cochiti Lake	35.61	-106.31	Temperate	United States	433.12	28.00	2.82	12.70	30.65	4.86				3.87	26.00	228.76	1
Conchas Lake	35.38	-104.23	Temperate	United States	358.34	68.00	1.59	12.60		38.85				4.48	5.00	237.21	1
Corumbá	-17.98	-48.52	Tropical	Brazil	173.64	7.00	137.50	26.16	21.80	55.00	27762.00		40.00			969.17	7
	-17.98	-48.52	Tropical	Brazil	680.90	8.00			21.80	55.00	27800.00	1.20	40.00			969.17	2
Curua-Una	-2.82	-54.28	Tropical	Brazil	791.63	22.00			6.90	72.00		1.00	29.00			922.82	2
Danjiangkou	32.72	111.55	Temperate	China	138.17	32.00	3.50	19.02	157.00	745.00	95200.00	17.45		1.30	20.00	534.76	1
Day Lake	46.18	-90.90	Temperate	United States	190.90	29.00			2.13	2.00						626.96	2
Deer Creek Reservoir	40.40	-111.52	Temperate	United States	-78.87	62.00	5.45	12.30	20.00	4.86						403.13	1
Douglas	35.96	-83.54	Temperate	United States	1927.36	67.00		21.67	11.60	115.00	11760.00	1.33		3.49		626.58	8
	35.96	-83.54	Temperate	United States	185.50	69.00	3.70	23.45	11.60	115.00		1.33	91.00			626.58	9
Duncan Lake	54.42	-126.00	Boreal	Canada	-220.90	37.00		18.90	30.60	56.00		1.70				519.46	2
Dworshak	46.57	-116.25	Temperate	United States	-325.90	31.00		21.93	116.20	37.00	6250.00	4.30	1215.00	1.66		517.40	2
Eagle Creek	39.85	-86.30	Temperate	United States	528.89	37.50		21.40	5.48	5.50	423.00	0.03	56.00	8.41		615.46	1
Eastmain 1	51.50	-74.00	Boreal	Canada	2208.00	1.00	2.78		11.00	602.90	46400.00	6.94	145.00	6.26	14.28	558.50	6
	51.50	-74.00	Boreal	Canada	948.00	2.00	2.78		11.00	602.90	46400.00	6.94	145.00	6.26	14.28	558.50	6
Eastmain-Opinica	52.78	-76.62	Boreal	Canada	940.90	13.00		15.90	7.00	600.00	25800.00	4.20	1460.00			551.21	2
	52.78	-76.62	Boreal	Canada	720.00	28.00			7.00	600.00	46400.00	4.20	1460.00			551.21	6
Ecological Station of Seridó	-6.58	-37.26	Tropical	Brazil	510.00	70.00	47.50		2.00	0.20	44600.00	0.00			101.00	618.38	1
ELA High C Reservoir	49.67	-94.75	Temperate	Canada	148.00	1.00			0.90	0.01	0.05	0.00	8.70			633.10	1
ELA Lake 979	49.77	-93.80	Temperate	Canada	872.70	1.00			1.00	0.17						621.46	1
ELA Low C Reservoir	49.67	-94.75	Temperate	Canada	145.03	1.00			1.10	0.01	0.00	0.00	6.85			633.10	1
ELA Medium C Reservoir	49.67	-94.75	Temperate	Canada	153.73	1.00			0.90	0.01	0.01	0.00	6.00			633.10	1
Elephant Butte Lake	33.15	-107.19	Temperate	United States	300.20	56.00			17.26	161.87						117.89	1
EOL	53.45	-77.10	Boreal	Canada	316.60	24.00		16.50								549.92	2
F.D. Roosevelt	47.90	-118.77	Temperate	United States	-126.00	62.00		21.70	37.90	306.00	190700.00	11.60	76.00	2.34		349.04	2
Fontana	35.45	-83.81	Temperate	United States	178.81	68.00	5.90	19.40	41.40	43.00		1.78	180.00			655.40	1
Funil	-22.52	-44.55	Subtropical	Brazil	6.70	39.00	8.03	27.50	19.70	27.00	13410.00	0.50	55.00		51.60	910.75	2
	-22.52	-44.55	Subtropical	Brazil	-163.60	40.00			19.70	27.00		0.50	55.00			910.75	2
Furnas	-20.67	-46.25	Subtropical	Brazil	122.55	44.00		21.35	15.40	1342.00	50464.00	20.70	503.00			1097.92	2
	-20.67	-46.25	Subtropical	Brazil	144.10	45.00			15.40	1342.00		20.70	503.00			1097.92	2

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Furtuna	9.24	-82.18	Tropical	Panama	320.50	18.00			17.00	10.00		0.20	72.00				2
Gatun	9.23	-79.88	Tropical	Panama	608.50	90.00	10.62		12.40	431.00	2313.00	5.00	365.00		50.00	1149.04	2
Geheyán	30.46	111.14	Subtropical	China	364.51	19.00	0.77	20.11	82.90							593.88	10
Gouin	48.93	-74.95	Temperate	Canada	181.40	39.00		18.30	47.90	1789.00	9473.00	85.70	4124.00			589.33	2
Grand Rapids	53.15	-99.28	Boreal	Canada	168.15	39.00			3.90							562.57	1
Great Falls	50.45	-90.00	Boreal	Canada	1569.30	86.00		22.60	5.00	10.00						589.22	2
Great Lake	-41.87	146.75	Temperate	Austrailia	2.73	27.00		14.10	3.60	114.00			576.00			677.47	1
Green Meadow Lake	32.75	-103.17	Temperate	United States	-2.73	53.00		14.00		0.06						201.65	1
Green Valley	41.10	-94.39	Temperate	United States	-32.88		41.00			1.70	20.10	0.00	438.00	6.40	70.00	664.53	1
Gruyere	46.65	7.10	Temperate	Switzerland	192.80	59.00	2.38		20.80	10.00	954.00	0.20	75.00		9.00	611.47	2
Guadalacín	36.67	-5.78	Temperate	Spain	123.00	18.00	2.10		23.16	36.70	687.00	0.85		3.90	30.70	587.31	1
Gunlock Reservoir	37.25	-113.78	Temperate	United States	271.00	33.00	2.20	18.60	27.00	0.44						232.28	1
Guntersville	34.42	-86.39	Temperate	United States	308.84	73.00	1.80	23.65	4.50	279.00		1.26	14.00			680.08	1
Hartwell	34.47	-82.85	Temperate	United States	257.06	50.00	9.50	19.95	13.90	226.00		3.15	56.00			664.51	1
Hinds	49.65	-57.07	Temperate	Canada	574.09	23.00		18.30	5.20	21.00						564.69	2
Hongfeng	26.55	105.42	Subtropical	China	135.00	54.00	23.90	18.10	10.25	57.20	1596.00	0.60	119.00	8.80		679.67	11
	26.55	105.42	Subtropical	China	180.00	50.00	12.70	14.84	20.00	57.20	1596.00	0.60			34.00	679.67	12
Hongjiadu	26.87	105.85	Subtropical	China	73.96	5.00	1.70	16.13	60.87	80.50	9900.00	4.90			10.00	687.04	13
	26.87	105.85	Subtropical	China	56.95	11.00	2.40	18.50	60.87	80.50	9900.00	4.90		7.20		687.04	11
Hongyan	26.79	106.54	Subtropical	China	269.20	36.00		17.42	33.30		2792.00	0.04				689.57	1
Horseshoe Lake Reservoir	33.98	-111.72	Temperate	United States	341.40	58.00	2.70	17.30	9.10	1.74	10000.00					258.49	1
Huntington Lake	39.33	-110.93	Temperate	United States	140.00	37.00	3.04	10.00	3.00	0.37				3.77	15.00	227.83	1
Indal	62.57	17.07	Boreal	Sweden	30.80	70.00			30.80	1176.00				3.00		541.00	2
Itaipu	-25.38	-54.55	Subtropical	Brazil	46.50	14.00			95.60	1350.00		129.00	39.00			882.08	5
Itezhi Tezhi	-15.77	26.02	Tropical	Zambia/Zim babwe	737.00	35.00			16.44	365.00	106424.00	6.00				690.40	1
Itumbiara	-18.40	-49.05	Tropical	Brazil	86.00	26.00			21.00	719.00	95000.00	15.10	146.00			959.47	2
	-18.40	-49.05	Tropical	Brazil	243.35	25.00			21.00	719.00		15.10	146.00			959.47	2
Jones Reservoir	49.38	-122.02	Temperate	Canada	-58.10	50.00		17.80		5.00						595.63	2
Jordanelle Reservoir	40.62	-111.40	Temperate	United States	-41.76	10.00		6.30	33.22	5.41						431.86	1
Kafue Gorge	-15.81	28.42	Tropical	Zambia/Zim babwe	737.00	39.00			4.86	13.00		1.00				716.32	1
Kariba	-17.00	28.00	Tropical	Zambia/Zim babwe	-141.00	54.00		28.80	29.63	5400.00	663000.00	160.00	912.50			714.31	1
Kettle	56.38	-94.63	Boreal	Canada	144.13	34.00			7.10							522.53	1
King Talal	32.19	35.89	Temperate	Jordan	190.91	23.00		17.00	20.00	1.60		0.03	115.00			265.35	1
Kinsbasket	52.13	-118.45	Boreal	Canada	144.50	19.00			56.67	430.00						378.68	2
Kootenay Lake	49.35	-116.75	Temperate	Canada	-38.70	20.00		16.00	94.30	389.00	45584.00	36.70	657.00			443.71	2
L.C.B. de Carvalho	-20.15	-47.25	Subtropical	Brazil	842.10	38.00			28.90	45.00		1.30	18.00			1049.08	2

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	-20.15	-47.25	Subtropical	Brazil	169.30	39.00			28.90	45.00		1.30	18.00			1049.08	2
La Grande 1	54.50	-78.52	Boreal	Canada	454.60	24.00		8.70	17.10	70.00		1.20	1460.00			530.83	2
La Grande 2	53.83	-76.01	Boreal	Canada	354.50	17.00			18.30	2835.00	95180.00	52.00	193.00			522.50	2
La Grande 3	54.20	-76.13	Boreal	Canada	465.50	19.00		11.50	24.80	2420.00	140000.00	60.00	4453.00			504.96	2
	54.20	-76.13	Boreal	Canada	193.83	21.00		3.97	24.80	2420.00	140000.00	60.00	4453.00			504.96	22
	54.20	-76.13	Boreal	Canada	288.00	23.00			24.80	2420.00	140000.00	60.00	4453.00			504.96	6
La Grande 4	54.60	-73.22	Boreal	Canada	321.30	20.00		14.40	28.80	765.00	70000.00	22.00	4015.00			453.60	2
Lac Du Bonnet	50.27	-96.02	Boreal	Canada	940.10	47.00		23.90	2.00	126.00						637.68	2
Lac St-Jean	50.07	-70.52	Boreal	Canada	403.60	47.00		12.80	103.99	1053.00			109.50			572.44	2
Laforge-1	54.20	-72.58	Boreal	Canada	627.30	2.00			8.30	960.00		8.00	96.00			468.07	2
	54.20	-72.58		Canada	243.29	7.00	2.50	11.40	7.25	1074.00			91.00	5.95	10.60	468.07	14
	54.20	-72.58	Boreal	Canada	562.40	9.00		15.10	6.20	1288.00						468.07	2
Laforge-2	54.95	-70.25	Boreal	Canada	227.20	19.00		17.40	7.10	260.00			292.00			391.14	2
Lake Burbury	-42.12	145.67	Temperate	Austrailia	249.55	17.00		17.40	16.90	54.00						766.33	1
Lake Darling	41.19	-91.89	Temperate	United States	-16.44	76.00	44.00		2.20	1.00	50.50	0.00	25.55	6.50	154.00	678.57	1
Lake Gordon	-42.73	146.17	Temperate	Austrailia	175.09	32.00		15.30	35.00	272.00		12.50	846.00			733.57	1
Lake Havasu	34.48	-114.38	Temperate	United States	570.90	65.00	0.56		11.00	31.69	462030.00					55.44	1
Lake King William	-42.23	146.25	Temperate	Austrailia	28.36	56.00		15.95	12.60				105.00			709.42	1
Lake Lyman	34.35	-109.35	Temperate	United States	203.90	91.00	13.86		6.70	1.64				6.17	237.00	289.79	1
Lake Mead	36.42	-114.65	Temperate	United States	314.90	68.00		14.50	50.37	18.02	435000.00	32.24				127.32	1
Lake Pedder	-42.93	146.13	Temperate	Austrailia	127.09	34.00		15.95	12.60				636.00			736.28	1
Lake Plimsoll	-41.89	145.62	Temperate	Austrailia	313.91			14.55					30.00			770.04	1
Lake Powell	36.93	-111.48	Temperate	United States	224.60	40.00		14.70	40.00	266.46	280586.00	30.00	7.20		414.00	143.00	1
Lake Powell (Bullfrog Basin)	36.93	-111.48	Temperate	United States	156.90	40.00	1.00	22.70	40.00	266.46						143.00	1
Little Pine Lagoon	-42.00	146.60	Temperate	Austrailia	75.82			13.60	16.50				6.00			682.26	1
Liyutan	24.33	120.77	Subtropical	Taiwan	-130.27	19.00	19.30	28.23	26.48	4.49		0.12	126.00		28.00	689.07	1
Ljungan	62.52	14.45	Boreal	Sweden	43.40	70.00			87.00	134.00				4.00		516.06	2
Ljusnan/Voxnan	62.05	15.12	Boreal	Sweden	68.20	70.00			126.30	210.00				6.00		542.65	2
Lokka	67.82	27.73	Boreal	Finland	545.50	27.00	18.61	10.18	3.65	417.00	2280.00	2.10	559.00		33.00	480.76	2
	67.82	27.73	Boreal	Finland	288.00	28.00			4.90							480.76	2
Lower Charrette Lake	36.18	-104.80	Temperate	United States	252.70	73.00		16.00	3.00							370.56	1
Lower Enterprise Reservoir	37.52	-113.85	Temperate	United States	89.79	83.00		10.70	5.00	0.13						239.13	1
Lule	65.83	21.67	Boreal	Sweden	12.30	70.00				574.00				2.00		546.03	2
Lungern	46.80	8.17	Temperate	Switzerland	96.30	86.00			31.00	2.00		0.10	150.00	3.70		576.56	1
Luzzzone	46.57	8.97	Temperate	Switzerland	686.20	46.00			61.10	1.00		0.10	230.00			506.17	1
Macallister Lake	35.52	-105.18	Temperate	United States	331.60	43.00		9.50	7.60	0.40						243.42	1
Maelpaeg	48.35	-57.05	Temperate	Canada	375.30	33.00		18.20	13.70	328.00						568.69	2
Maelpaeg (Granite Lake)	48.33	-57.60	Temperate	Canada	889.90	31.00		17.90	15.00	80.00						560.65	2
Mainskaya	52.97	91.50	Boreal	Russia	504.00	10.00			10.43	11.50		0.12				570.67	1

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Manic 1	49.35	-68.58	Temperate	Canada	832.90	52.00		11.90	3.50	12.00						588.51	2
Manic 2	49.77	-68.63	Temperate	Canada	231.30	34.00		18.30	9.70	124.00		1.20				578.83	2
Manic 3	50.23	-69.03	Boreal	Canada	83.50	28.00		16.40	44.10	236.00		10.40				573.43	2
Manic 5	51.33	-69.15	Boreal	Canada	383.70	38.00		11.00	60.80	1973.00		120.10	2920.00			544.10	2
	51.33	-69.15	Boreal	Canada	228.00	43.00										544.10	6
Manicouagan	51.38	68.70	Boreal	Canada	634.64	35.00	0.67	11.40	85.00	1950.00			2336.00	5.95	10.60	481.88	1
Manimuthar	8.63	77.42	Tropical	India	-169.72	54.00		33.00	10.50							776.83	1
Manso	-14.87	-55.77	Tropical	Brazil	317.05	4.00			15.70	357.00	9365.00	5.60	430.00			887.47	2
	-14.87	-55.77	Tropical	Brazil	1065.80	7.00			15.70	357.00		5.60	430.00			887.47	2
Mascarenhas de Moraes	-20.27	-47.05	Subtropical	Brazil	302.75	49.00			15.00	249.00	59355.00	3.72	44.00			1077.86	1
McArthur Falls	50.38	-95.98	Boreal	Canada	96.09	52.00			2.00							639.81	1
Meadowbank Lake	-42.53	146.74	Temperate	Austrailia	31.64	42.00		18.00	13.60				6.00			700.76	1
Millsite Reservoir	39.10	-111.20	Temperate	United States	520.70	29.00	0.98	16.10	14.02	0.71						177.15	1
Minersville Reservoir	38.23	-112.80	Temperate	United States	49.90	89.00	1.63	18.00	8.10	1.62						177.40	1
Miramar	32.92	-117.10	Temperate	United States	-10.50	53.00	1.68		12.48	0.66		0.01		3.03	16.00	243.65	1
Miranda	-18.92	-48.03	Tropical	Brazil	1224.55	10.00			158.10	51.00	17000.00	8.00	420.00			1026.75	2
Moose Lake	46.02	-91.07	Temperate	United States	354.50	73.00			2.44	7.00		7.10	266.00			635.86	2
Morphy Lake	35.93	-105.40	Temperate	United States	-93.06	64.00		15.10	27.9	0.15						343.83	1
Murray	32.78	-117.04	Temperate	United States	-21.06	95.00	4.02		5.00	0.81		0.01		4.13	18.00	245.57	1
Nam Leuk	18.45	102.95	Tropical	Lao PDR	-192.18	10.00		25.87	14.00	13.00	323.00	0.19	127.75			839.44	1
Nam Ngum	18.53	103.55	Tropical	Lao PDR	37.23	38.00		25.60	19.00	350.00	8460.00	7.00	273.75			844.47	1
Nam Theun 2	17.98	104.95	Tropical	Lao PDR	1674.58	1.00		26.25	7.80	260.00	4013.00	3.53		2.42		984.94	15
Navajo Lake	36.80	-107.61	Temperate	United States	205.50	40.00	1.19	13.40	33.45	60.70				3.38	5.00	214.89	1
Nelson Lake	46.08	-91.50	Temperate	United States	193.60	61.00			3.35	25.00						640.33	2
New Melones	37.98	-120.52	Temperate	United States	-322.90	25.00		24.49	100.00	38.00	2315.00	3.80	793.00	1.31		523.56	2
Nihe	46.28	126.60	Temperate	China	173.57	34.00	18.80		18.75	40.00	1515.00	0.00			80.00	515.90	1
Opinaca	52.78	-76.62	Boreal	Canada	514.10	23.00		17.20	9.00	947.00	30000.00	8.50	1460.00			551.21	2
	52.78	-76.62	Boreal	Canada	720.00	28.00			9.00							551.21	6
Oroville	39.55	-121.43	Temperate	United States	280.70	36.00		23.95	129.40	34.00	9342.00	4.40	1337.00	1.54		552.03	2
Otter Creek Reservoir	38.17	-112.02	Temperate	United States	340.00	88.00	0.70	17.00	11.00	4.13						240.69	1
Outaouais	45.93	-74.67	Temperate	Canada	349.60	41.00		20.90								627.63	2
Outardes 3	49.95	-69.35	Temperate	Canada	23.20	30.00		14.80	23.90	11.00						572.58	2
Outardes 4	50.27	-69.20	Boreal	Canada	596.50	32.00		14.60	28.00	625.00	10000.00	17.50	7843.00			569.08	2
Oyun	8.50	8.25	Tropical	Nigeria	54.60	39.00	133.76		2.60	0.69		0.00	12.00		500.00	762.03	1
Palar-Porunthalar	10.37	77.48	Tropical	India	36.03	33.00		29.60	9.00							858.46	1
Parapalar	10.42	77.68	Tropical	India	16.46			27.50	32.80							777.17	1
Parker Canyon Lake	31.42	-110.45	Temperate	United States	190.20	77.00		14.10	25.00	1.02						194.94	1
Patagonia Lake	31.48	-110.85	Temperate	United States	612.10	35.00		22.30	27.00	0.42						239.20	1
Pena Blanca Lake	31.40	-111.08	Temperate	United States	41.50	45.00		10.50	20.00	0.07						245.00	1

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Péribonka	49.27	-72.02	Temperate	Canada	682.90			19.50	20.00	19.00						585.25	2
Petit Saut	5.05	-53.03	Tropical	French Guiana	1215.40	3.00			9.60	365.00	5927.00	3.50	180.00	6.00		1168.25	2
	5.05	-53.03	Tropical	French Guiana	2469.60	11.00			9.60	365.00		3.50	180.00			1168.25	2
	5.05	-53.03	Tropical	French Guiana	1437.75	9.00			9.60	365.00		3.50	180.00			1168.25	2
Pine Falls	50.57	-96.20	Boreal	Canada	928.40	50.00		23.20	6.30	9.00						645.93	2
Pipmuacan	49.65	-70.27	Temperate	Canada	511.20	47.00			14.21	802.00						578.51	1
Piute Reservoir	38.32	-112.18	Temperate	United States	141.10	88.00	6.66	19.10	10.58	4.11				5.98	45.00	228.15	1
Pleasant Lake	33.88	-112.27	Temperate	United States	-139.20	76.00		22.50	21.00	2.46						188.44	1
Pointe du Bois	50.30	-95.53	Boreal	Canada	846.00	35.00		22.20	0.80	593.00						624.22	2
Porttipahta	68.00	26.75	Boreal	Finland	496.35	25.00	6.27	12.05	6.30	214.00	2573.00	1.40	310.00		16.60	480.74	2
Poway	33.01	-117.01	Temperate	United States	-84.24	42.00	1.52		7.00	0.26		0.00		3.57	30.00	251.42	1
Prairie Rose	41.60	-95.21	Temperate	United States	-16.44		49.00			0.80	18.10	0.00	138.70	4.50	61.00	690.65	1
Quail Creek Reservoir	37.18	-113.38	Temperate	United States	103.70	18.00	1.50	18.50	37.00	0.97						253.40	1
Red Indian	49.30	-57.08	Temperate	Canada	208.40	93.00		20.80	7.10	184.00						570.10	2
Revelstoke	51.00	-118.20	Boreal	Canada	600.00	8.00			44.20	120.00		5.30				479.19	1
Ribeirão das Lages	-22.70	-43.88	Subtropical	Brazil	22.10	95.00			15.00	30.00		0.50	279.00			1109.28	2
Riviere-des-Prairies	45.58	-73.65	Temperate	Canada	180.17	78.00			1.80							622.38	1
Robert Lake	33.03	-108.16	Temperate	United States	186.90	40.00		9.00	13.50	0.29						251.03	1
Robert-Bourassa (La Grande-2)	53.67	-77.00	Boreal	Canada	354.50	17.00		18.30	21.80	2835.00		52.00	193.00			548.06	24
	53.67	-77.00	Boreal	Canada	180.00	28.00		18.30	21.80	2835.00	176810.00	52.00	193.00			548.06	6
	53.67	-77.00	Boreal	Canada	409.10	15.00			21.90	2815.00	176810.00	61.70	207.00			548.06	2
	53.67	-77.00	Boreal	Canada	385.77	23.00	1.30	11.40	21.80	2835.00	176810.00		204.00	5.95	10.60	548.06	14
	53.67	-77.00	Boreal	Canada	221.81	26.00		5.38	21.80	2835.00	176810.00					548.06	22
	53.67	-77.00	Boreal	Canada	465.30	20.00			21.80	2835.00	95180.00	61.70	207.00			548.06	2
Robertson	51.00	-59.88	Boreal	Canada	384.00	7.00		13.10	21.00	73.00						540.15	2
Rockport Reservoir	40.78	-111.40	Temperate	United States	421.40	46.00	0.20	16.60	19.42	1.95				3.75	19.00	424.13	1
Roosevelt Lake	33.67	-111.15	Temperate	United States	-125.70	92.00	1.93	21.70	41.27	21.39	190700.00					242.21	1
Ross Barnett Reservoir	32.43	-90.03	Temperate	United States	321.41	45.00		20.60	3.66	134.67						633.71	1
Rzeszów	50.01	21.99	Boreal	Poland	1253.52	36.00	18.40	15.53	0.50	1.18	2050.00	0.00	2.00			690.75	1
Sainte-Marguerite 2	50.52	-67.07	Boreal	Canada	410.70			16.40			6130.00					556.53	2
Sainte-Marguerite 3	51.67	-67.03	Boreal	Canada	1828.09	1.00	1.20	11.40	47.00	253.00	246.00	11.90	876.00	5.95	10.60	515.61	14
	51.67	-67.03		Canada	1495.60	4.00		11.50	47.00		253.00	7330.00	11.90			515.61	2
Samuel	-8.80	-63.42	Tropical	Brazil	1171.50	15.00			8.90	559.00	29700.00	5.00	105.00	3.00		977.89	2
	-8.80	-63.42	Tropical	Brazil	1909.10	12.00			8.90	559.00	29700.00	5.00	105.00	3.00		977.89	2
	-8.80	-63.42	Tropical	Brazil	2205.50	16.00			8.90	559.00	29700.00	5.00	105.00	3.00		977.89	5
Sandy	49.42	-57.05	Temperate	Canada	684.50	39.00		20.80	5.40	508.00		2.70				567.72	2

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Sayano-Shushenkaya	52.83	91.37	Boreal	Russia	432.94	20.00			50.40	608.00		30.71				577.14	16
Segredo	-25.78	-52.10	Subtropical	Brazil	667.50	13.00			36.60	82.00	34267.00	3.00	47.00			705.10	2
Serra da Mesa	-13.85	-48.33	Subtropical	Brazil	1090.90	1.00			30.50	1784.00	50975.00	54.40	770.00			822.64	2
	-13.85	-48.33	Subtropical	Brazil	358.90	2.00			60.60	898.00		54.40	770.00			822.64	5
	-13.85	-48.33	Subtropical	Brazil	175.10	5.00			30.50	1784.00		54.40	770.00			822.64	2
	-13.85	-48.33	Subtropical	Brazil	686.25	6.00			27.10	898.00		24.30	770.00			822.64	2
	-13.85	-48.33	Subtropical	Brazil	449.61	15.00			34.38	1784.00						822.64	17
Seven Mile	55.97	-120.40	Boreal	Canada	-199.40	23.00		22.20	24.20	4.00						577.86	2
Seven Sisters Falls	50.12	-96.00	Boreal	Canada	1357.90	71.00		22.70	4.00	21.00						642.68	2
Shannon Lagoon	-41.99	146.74	Temperate	Austrailia	24.82			12.90								678.96	1
Shasta	40.85	-122.38	Temperate	United States	340.00	60.00		23.56	75.30	77.00	17065.00	5.80	372.00	3.11		456.28	2
Shuibuya	30.25	110.17	Subtropical	China	212.87	2.00			400.00			4.31				621.00	18
Sihl	47.13	8.80	Temperate	Switzerland	125.50	70.00			8.90	11.00	156.00	0.10	140.00	3.70		570.15	2
Skellefte	64.50	20.68	Boreal	Sweden	24.50	70.00				817.00				3.00		534.10	2
Skinnmuddselet	64.03	18.32	Boreal	Sweden	298.60	15.00			6.50	27.00	1400.00	170.00	110.00	8.35	15.00	531.06	2
Slave Falls	50.22	-95.57	Boreal	Canada	280.40	35.00		21.90		7.00						630.07	2
Smallwood Reservoir	54.10	-64.40	Boreal	Canada	70.36	32.00		12.50	5.00	6988.00						435.22	1
Solina	49.37	22.45	Temperate	Poland	-36.30	41.00		16.20	22.00	22.00	1175.00	0.50	215.00			693.03	1
Stave Lake	49.33	-122.28	Temperate	Canada	164.20	91.00		18.80	0.30	1170.00		0.40	150.00			607.94	2
Tehri	30.38	78.48	Temperate	India	116.16	5.00			76.92	42.00	7511.00	4.00				619.38	1
Thirparappu	8.38	77.25	Tropical	India	205.27			31.00								848.31	1
Three Gorges	31.03	109.55	Temperate	China	910.26	1.00	5.00	16.91	70.00	1084.00	1000000.00	39.30		3.20	142.13	601.89	18
Tigercat Lake	46.02	-91.23	Temperate	United States	60.00	60.00			1.52	3.00						638.00	2
Toulnoustouc	50.10	-68.38	Boreal	Canada	379.90	46.00		12.40		235.00	8165.00					574.69	2
Três Marias	-18.23	-45.25	Tropical	Brazil	288.67	45.00			20.20	1040.00	50600.00	21.00	120.00			854.78	2
	-18.23	-45.25	Tropical	Brazil	254.75	56.00			20.20							854.78	17
Tsengwen	23.27	120.55	Subtropical	Taiwan	23.20	38.00	6.35	30.27	28.18	1.77		0.75	237.00		11.00	892.01	1
Tucurui	-3.92	-49.60	Tropical	Brazil	2181.80	15.00			18.90	2430.00	759237.00	46.00	51.00	3.50		894.42	2
	-3.92	-49.60	Tropical	Brazil	2845.40	22.00			18.90	2430.00	759237.00	46.00	51.00	3.50		894.42	5
Ume	63.82	20.12	Boreal	Sweden	12.30	70.00				360.00	26500.00			2.00		533.75	2
Upper Charette Lake	36.18	-104.82	Temperate	United States	253.00	73.00		7.70	3.00	1.00						370.56	1
Upper Enterprise Reservoir	37.52	-113.86	Temperate	United States	-5.50	91.00	1.05	17.60	14.93	0.43						239.13	1
Upper Lake Mary	35.07	-111.52	Temperate	United States	847.13	63.00	5.48	19.20	12.00	0.74				6.36	50.00	339.86	1
Upper Salmon	48.30	-56.50	Temperate	Canada	524.50	20.00		17.40	8.00	130.00						576.54	2
Upper Salmon (Long Pond)	48.58	-56.50	Temperate	Canada	519.80	33.00		14.70	34.30	130.00						576.11	2
Ute Reservoir	35.33	-103.43	Temperate	United States	191.30	40.00		14.70	26.82	33.18						346.42	1
Vettaru	10.82	79.05	Tropical	India	562.48			35.00								562.78	1
Volta Grande	-20.17	-47.58	Subtropical	Brazil	261.90	38.00			10.95	205.00		23.00				1037.88	1
Wadi Al-Arab	32.62	35.64	Temperate	Jordan	272.73	22.00		15.50	17.86	0.56		0.01	214.00			394.65	1

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Wallace Lake	35.55	-105.15	Temperate	United States	664.80	83.00		18.00	3.00	0.40						251.89	1
Wallula	45.92	-119.17	Temperate	United States	-95.20	50.00		20.40	1.50	157.00	548000.00	0.20	1.25	1.25		240.03	2
Wan'an	26.55	114.68	Subtropical	China	153.27	20.00	8.80		20.65	107.50	36900.00	2.22		30.00	1.40	631.11	1
Waneta	49.08	-117.62	Temperate	Canada	-127.90	20.00		21.70	18.80	20.00						501.17	2
Watts Bar	35.62	-84.78	Temperate	United States	267.18	70.00	2.30	25.90	7.90	176.00		1.40	21.00			639.71	1
Wayatinah Lagoon	-42.39	146.51	Temperate	Austrailia	-1.64			16.90	6.40							698.22	1
Whatshan	49.08	-116.10	Temperate	Canada	182.70	40.00			7.10	15.00						477.71	2
	49.08	-116.10		Canada	-1.40	51.00		20.80	7.10	15.00						477.71	2
Wilcza Wola	21.90	50.35	Subtropical	Poland	1098.36	21.00		12.00	2.60	1.60		0.00	36.00				1
William H. Harsha Lake	39.02	-84.13	Temperate	United States	1974.00	34.00	20.90		12.90	7.85	890.00	0.10	849.00			658.83	1
Williston-Finlay	56.17	-124.17	Boreal	Canada	192.00	41.00		13.90	42.30	1660.00		70.30				459.86	2
Williston-Parsnip	55.82	-123.60	Boreal	Canada	479.50	33.00		15.10	39.50	1779.00		70.30	803.00			486.31	2
Williston-Peace	56.12	-123.32	Boreal	Canada	250.90	23.00		11.80	42.30	1660.00		70.30				453.49	2
Wohlen	46.97	7.28	Temperate	Switzerland	287.20	87.00	16.01		10.00	4.00	3202.00	0.02	3.00	1.90	30.00	667.57	2
	46.97	7.28	Temperate	Switzerland	262.45	85.00			7.00	3.65		0.03	2.50	1.20		667.57	19
Wujiangdu	27.28	106.62	Subtropical	China	700.48	28.00	5.12		48.12	47.80	27790.00	2.10			123.64	678.49	1
Xiaolangdi	34.94	112.32	Subtropical	China	351.48	10.00			46.50							507.50	20
Xin'anjiang	29.10	119.00	Subtropical	China	85.42	51.00	5.88	20.76	34.00	573.00	10442.00	21.63				649.38	18
Xingó	-9.62	-37.78	Tropical	Brazil	1655.20	10.00			11.70	60.00	614608.00	0.70	22.00			626.04	2
Xiuwen	26.75	106.35	Subtropical	China	564.61	47.00		16.31	25.00		2145.00	0.02				689.54	1
Yuba Reservoir	39.37	-112.02	Temperate	United States	379.35	89.00	0.80	15.40	6.49	17.86						239.81	1

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