

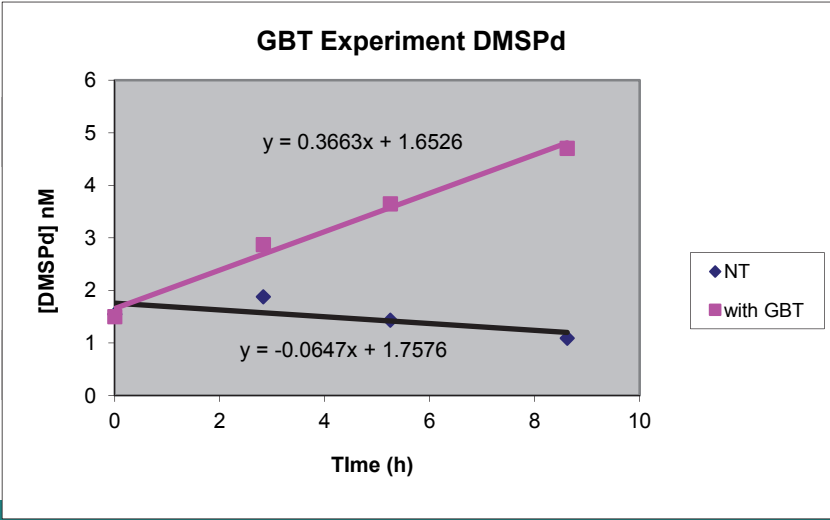
January 7, 2005. GBT inhibition.

Time	DMSPd		DMSPt		DMSPp	
	NT	with GBT	NT	with GBT	NT	with GBT
0	1.546985	1.500575	64.16142	67.49271	62.61444	65.99213
2.83	1.879122	2.872709	67.41712	69.60398	65.538	66.73127
5.25	1.432978	3.649401	61.16282	69.23141	59.72984	65.582
8.62	1.090525	4.705085	73.73271	79.00151	72.64218	74.29643

This sample may have been taken from cubitainer samples that Pat Neale collected - it was started the day we left Station 11 (crappy weather) and I recall using that cubitainer water for the size fractionation and perhaps GBT.

nM/h0.431
nM/d10.344

64.16 =DMSPt
0.16 fraction of DMSPt per day



Jan 9, 2005. 5 m water. Cast 78?

time	DMSPd		DMSPt	
	NT	GBT	NT	GBT
0	1.39	1.52	51.59	50.42
4.85	1.42	3.03	58.50	63.00
6.6	1.30	3.64	50.04	54.30
10.35	1.37	4.71	55.69	56.22

nM/h = 0.3138
DMSPd cons rate (nM/d) 7.5312

52 = DMSPt initial
0.14 fraction of DMSPt consumed per day

January 18, 2005. Cast ? 5 m depth

Hours	NT	GBT	NT range	GB range
0.033	0.666	0.712	0.010	0.037
2.183	0.530	1.094	0.031	0.017
6.950	0.496	1.823	0.010	0.202
13.850	0.633	2.679	0.139	0.413

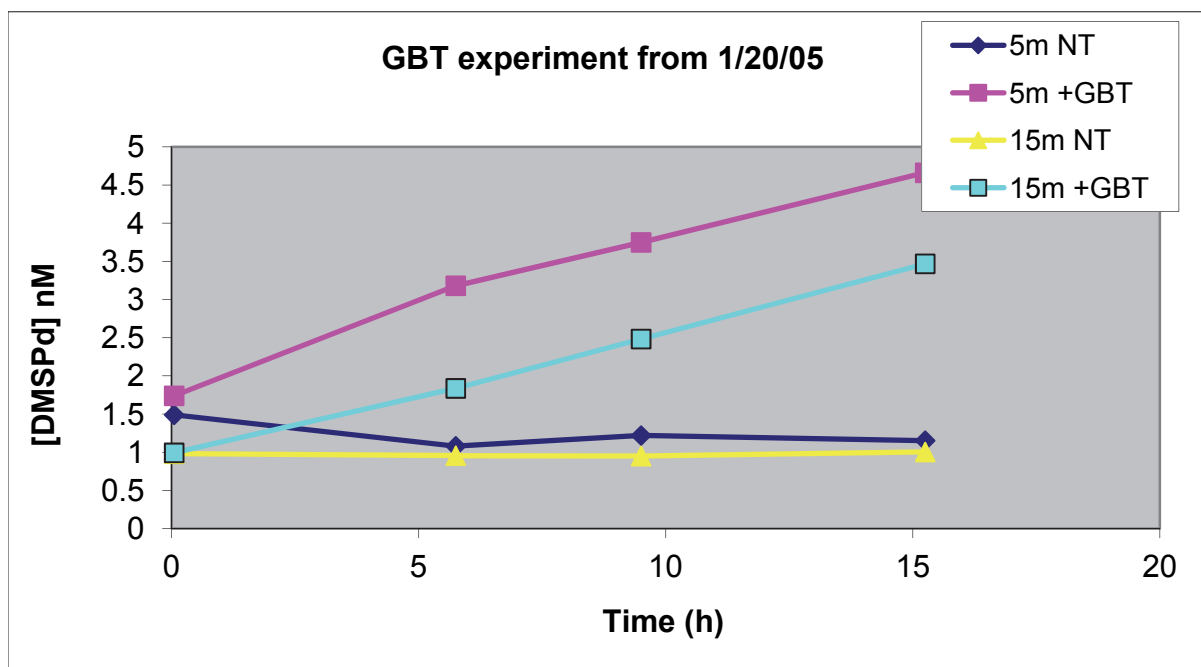
slopes (nM 0.000133 0.159342 Use first three time points - this give slightly higher slope
 Net slope = 0.16 nM/h
 3.82 nM/day

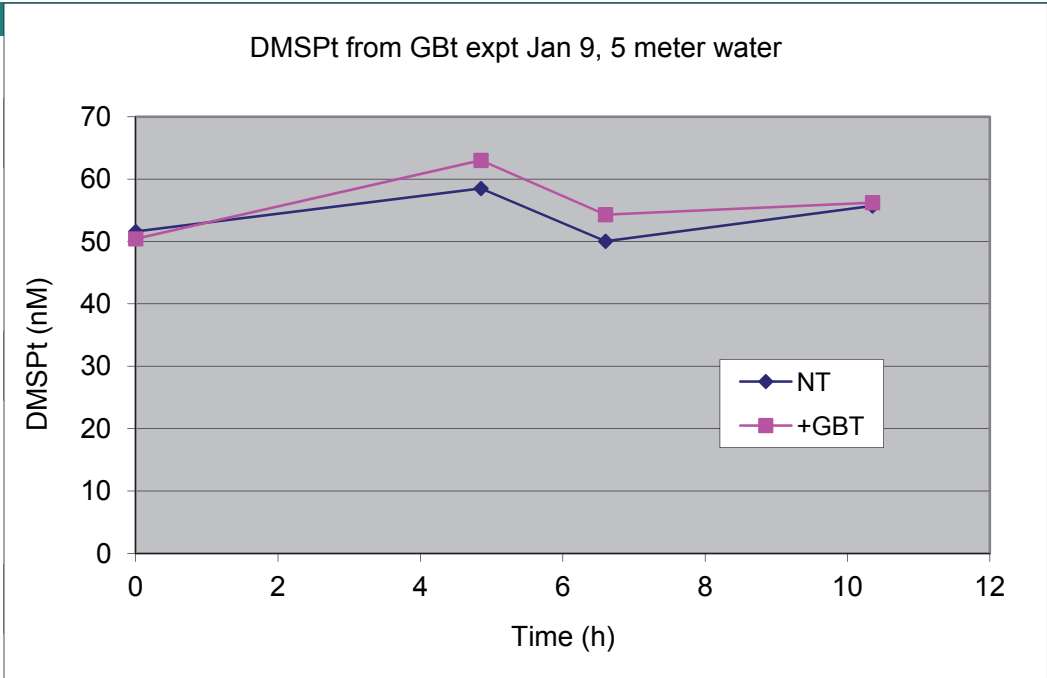
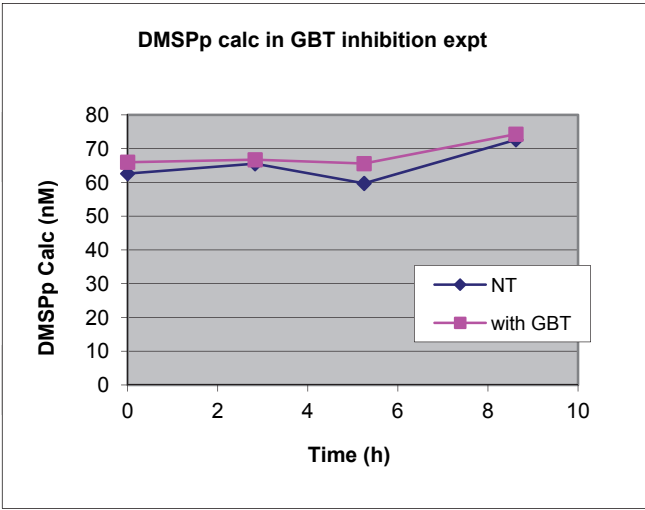
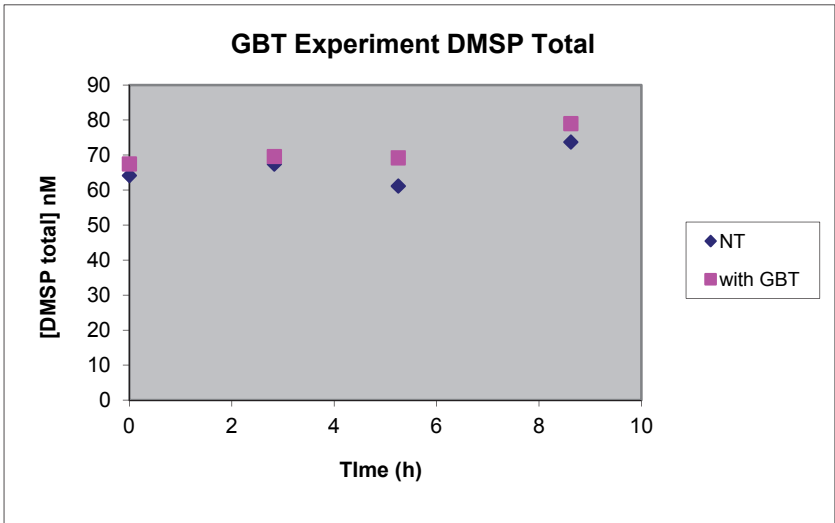
Time (h)	NT	+DMSP		
0	0.923688	27.23301	0.002655	1.313495
7.33	1.034697	6.663324	0.090208	0.162604
13.33	1.211437	4.020105	0.136784	0.016223

rate consta 0.1675 per h
 4.02 per day
 Initial DMS 0.923688
 Turnover 3.713227 nM/d

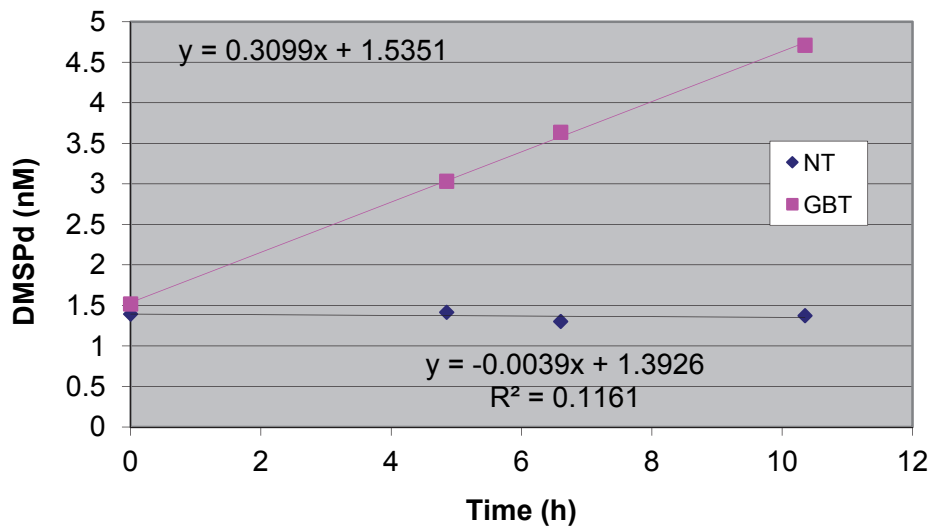
GBT inhib from Jan 20, 2005

Time	5m NT	5m +GBT	15m NT	15m +GBT
0.05	1.49	1.74	0.98	0.99
5.75	1.08	3.18	0.95	1.84
9.5	1.22	3.75	0.95	2.48
15.25	1.15	4.66	1.00	3.47
Slopes =	-0.02 0.21 5.01 nM/d	0.19	0.00 0.16 3.89 nM/d	0.16

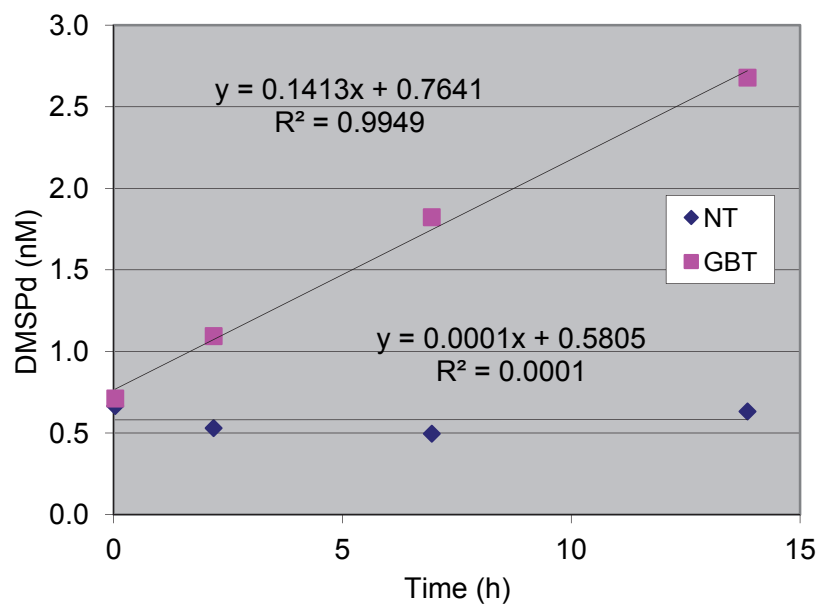




GBT inhibition experiment Jan 9 - 5 meter water



GBT inhibition January 18?



January 14 - 30 nM DMSPd additon time course

