

S1. Overview of samples collected at each station

Table S1.1: Overview of data available for each time-point of the 48 hour diurnal experiment at OCE17. x's denote time points when a particular variable was measured.

Time Point	Local Time	HPLC	QFT	FRRF	¹⁴ C	AC-s	BB3
1	2:00	x	x	x	x	x	x
2	4:00			x		x	x
3	6:00	x	x	x	x	x	x
4	8:00			x		x	x
5	10:00	x	x	x	x	x	x
6	12:00			x		x	x
7	14:00	x	x	x	x	x	x
8	16:00			x		x	x
9	18:00	x	x	x	x	x	x
10	20:00			x		x	x
11	21:00	x	x	x	x	x	x
12	22:00			x		x	x
13	0:00	x	x	x	x	x	x
14	2:00			x		x	x
15	4:00	x	x	x	x	x	x
16	6:00			x		x	x
17	8:00	x	x		x	x	x
18	10:00			x		x	x
19	12:00	x	x	x	x	x	x
20	14:00			x		x	x
21	16:00	x	x	x	x	x	x
22	18:00			x		x	x
23	20:00	x	x		x	x	x
24	22:00			x		x	x

Table S1.2: Overview of data available for each time-point of the 24 hour diurnal experiment at OSP14. x's denote time points when a particular variable was measured.

Time Point	Local Time	HPLC	QFT	FRRF	¹⁴ C
1	5:00	x	x	x	x
2	8:00		x	x	x
3	11:00	x	x	x	x
4	14:00		x	x	x
5	17:00	x	x	x	x
6	21:00		x	x	x
7	0:00	x	x	x	x
8	2:00		x	x	x