

Analysis for S0279 VINDTA #17

- 10/03/21 - HCl solution made on 10/03/21 (B#1)
- Outer solution TA electrode filled.
 - Bubbles removed from acid line.
 - VINDTA water bath set to 24.7 °C.
 - Outer Sample water bath set to:
 - RM6 = 24.5 °C
 - RE106 = 24.7 °C

Both baths checked with high-res.
thermometer for 25 °C.

- Peltier dial = 3.1, display = 1.7 °C
- N₂ ~ 0.7 bar
- DIC cell and caps: *** (red)
Cathode solution = 100 mL
- Method: 3C standard separata
modified LD temp
- Database: S0279.xls
- TA all black box changer (open/close cell)

SAMPLE ID	mv start	TA	CT
S0S001		2368.31	2294.45
S0S002		2372.58	2291.86
S0S003		2369.66	2289.07
S0S004		2369.91	2288.68
(CR1-189-0963-1)		2099.53	1995.12
questionable			

SAMPLE ID	start mV	CT	AT
9b	157.55	2103.07	2377.86
3b	164.10	2106.61	2307.90
7a	157.55	2101.43	2373.18
5a	159.45	2101.20	2335.70
Popped \rightarrow TA duller & filled enough *	157.40*	2097.38	1966.19*
9a	157.55	2099.23	2373.28
17a	156.90	2099.40	2385.05
4b	160.75	2096.73	2330.65
14b	157.10	2102.81	2381.07
15a	157.00	2101.97	2395.87
16a			
CRN-189-1024-1	164.95	1991.34	2167.92
CRN-189-0963-2	163.60	1979.69	2168.00

A forgot to kill all?
 ↳ all name is 9th March
 instead of 10th
 but sure I killed it

- 11/03/21 SO279 Analysis
- Outer solution filled TA electrode
 - Bubbles removed from acid line
 - VINDTA circulating bath set to 21.7°C
 - Water baths form for samples set:
 - * R16 = 24.4 °C
 - * RE106 = 24.7 °C
 - checked w/ high-res thermometer for 25°C
 - Peltier dial = 3.1 → display = 1.7°C
 - N₂ ≈ 0.7 bar
 - DIC cell: *** (red), cap for cathode: ** (red), cap for anode: 2 + cathode solution = 100 mL
 - Method: MODIFIED → switched from "V8 close, ~~V1 close, V2 close~~" to "V2 close, V8 close, V1 close" in "3C standard separate modified LD temp"
 - Database: SO279.dbg
 - Killed cell, new cell: 20210311
 - Acid batch B#1

* from this point, samples analyzed outside bath

SAMPLE ID	mV start	CT	TA
S0S005	173.05	2280.04	2409.90
S0S006	batched	2287.28	2346.10
S0S007	together	3265.08	2359.59
*S0S008	172.85	2478.03	2358.64

Given stable TA but unstable DIC, remake cell using same all and caps?

↳ rinsed it with cathode and anode solution

↳ 100 mL ~~cathode~~ cathode solution

↳ cell killed then started and named

"202103112"

SAMPLE ID	m _{start}	C T	AT
SOS 009	172.25	2295.03	2360.03
SOS 010	172.05	2332.24	2360.66
SOS 011	172.05	2393.29	2360.10
SOS 012	171.95	2295.64	2359.16
SOS 013	171.80	2296.77	2361.02
CRN-189-1024-2	162.65	1987.74	2157.00
CRN-189-1086-1	164.20	2003.46	2156.73
(12/12) 6b (22H12)	157.45	2107.04	2353.90
(19/12) 16a (10H42)	156.00	2108.13	2433.72
(19/12) 17b (16H22)	155.90	2112.46	2361.74
(15/12) 10g (21H43)	156.40	2117.25	2381.94
(30/12, 19H26, #1) 43a	161.80	2107.19	2314.69
(19/12, 22H01, #2) 21b	155.25	2093.53	2368.60
(24/12, 23H05, #2) 33b	157.10	2095.84	2353.86
(20/12, 09H04, #2) 22b	155.80	2088.27	2357.53
(20/12, 22H08, #1) 24a	156.10	2081.65	2350.06
(9/12, 14H08, #1) 3a*	163.95	2104.49	2346.92*
(18/12, 22H32, #2) 15b	156.60	2101.51	2369.27
CRN-189-0775-1	163.60	1992.34	2144.53
CRN-189-1086-2	162.05	1982.36	2156.93

* new
missing
solution
made 10/03/2

* air in NaCl rinsing tube so
TA cell didn't rinse properly
↳ don't know how long so uncertainty
all all AT

+ ACID LINE MISCAL. → was above water
and not in cell

12/03/21 SO279 ANALYSIS

- Bubbles removed from acid line
- VINDTA circulating bath set to 24.7 °C
- Water baths for samples:
 - * RT16 = 24.4 °C
 - * RE106 = 24.7 °C
- Peltier dial = 3.1 → display = 1.6 °C
- N₂ ~ 0.7 bar
- DIC cell: *** (red) (cell + cathode cap)
 - #2 cap for anode
 - + cathode solution = 100 mL
- Method: "3C standard separate modified LD temp"
- Database: SO279.dbs
- Killed cell, new cell = "20210312"
- Outer solution filled TA electrode
- Acid line placed inside TA cell, at the back, below electrodes levels
- NaCl rinsing solution made 10103
- Acid Batch B1#1
- ⚠ - Junks were done at room temp but CRIs + samples at 25 °C

BAMPLE ID	m^V	CT	AT
SOS004 (T_{room})	170.85	2268.85	2335.90
SOS 015 (T_{room})	170.45	2267.16	2338.63
SOS 016 (T_{room})	170.45	2265.57	2338.74
SOS 017 (T_{room})	170.45	2265.95	2339.31
CRN-189-0775-2	160.30	1978.39	2159.10
CRN-189-0296-1	161.65	1987.40	2159.76
(30/12, 20H01, #1) 45a	159.15	2099.08	2316.82
(22/12, 21H17, #2) 29b	153.00	2083.08	2374.69
(30/12, 21H05, #2) 49b	159.40	2093.59	2308.88
(25/12, 21H39, #1) 35a	155.15	2093.04	2354.36
(21/12, 9H25, #1) 25a	152.85	2084.27	2374.74
(08/12, 22H24, #1) 1a	161.20	2103.07	2298.93
(19/12, 22H01, #1) 21a	153.10	2083.00	2370.41
(16/12, 11H10, #1) 11a	153.95	2090.78	2366.28
(29/12, 10H58, #2) 40b	157.70	2093.41	2326.32
(30/12, 20H30, #2) 47b	158.90	2100.58	2314.82
(15/12, 21H43, #2) 10b	153.95	2101.23	2384.84
(19/12, 17H52, #2) 20b	153.35	2092.41	2377.44
CRN-189-1208-1	161.40	1989.11	2160.58

16/03/21 SO279 Analysis

- Bubbles removed from acid line
- VINDTA circulating bath set to 24.7°C
- water baths for samples:
 - * R16 = 24.4°C
 - * RE106 = 24.7°C
- Peltier dial = $3.1 \cancel{^{\circ}}$ \rightarrow display = 1.7°C
- $N_2 \approx 0.7$ bar
- DIC cell: *** (red) (cell + cathode cap)
 - # 2 for anode cap
 - + cathode solution = 100 mL
- Method: "3C standard separator modified LD temp"
- Database: SO279. db5
- Killed cell, new cell "20210316"
- Outer solution filled in TA electrode
- NaCl rinsing solution from 10/03
- Junks done at room temp.
- Acid batch B#1

* changed NaCl rinsing solution (made 12/03)

⚠ Forget stirrer in coulometer cell ^(to put it in)

SAMPLE ID

	m ^v start	CT	AT
SOS 018	168.35	2259.46	2340.88
SOS 019	168.35	2258.41	2338.54
SOS 020	168.45	2257.07	2340.60
CRN-189-1208-2	160.80	1983.95	2155.80
CRN-189-0901-1	161.80	1989.82	2157.52
(7/12, 13H49, #1) 12 ⁵ a	154.25	2089.77	2362.89
(19/12, 10H42, #2) 16 b	153.80	2096.92	2378.55
(28/12, 15H16, #1) 38 a	156.30	2097.80	2343.20
(30/12, 21H36, #2) 51 b	159.90	2101.67	2306.20
(21/12, 21H40, #1) 27 a	153.20	2089.06	2370.56
(12/12, 9H27, #2) 5 b	156.55	2097.39	2341.87
(30/12, 12H04, #1) 42 a	158.85	2109.12	2318.04
(20/12, 16H50, #2) 23 b	153.40	2091.88	2369.99
(21/12, 21H52, #1) 31 a	154.60	2100.29	2371.90
(24/12, 10H19, #1) 32 a	155.05	2099.16	2363.52
CRN-189-0296-2	160.85	1984.68	2160.15
(24/12, 10H19, #2) 32 b	155.10	2097.83	2360.64
(7/12, 20H52, #2) 13 b	154.85	2090.49	2364.38
(9/12, 16H52, #1) 18 a	154.30	2096.09	2377.07
(26/12, 22H42, #1) 37 a	156.70	2092.18	2327.55
(21/12, 11H31, #1) 26 a*	153.55	2083.42	2374.19
(12/12, 22H12, #1) 6 a	155.90	2098.89	2356.42
(30/12, 20H47, #1) 48 a	160.00	2103.23	2312.78

SAMPLE ID

SAMPLE ID	start m	CT	AJ
(23/12, 11 H33, #2) 30b	154.75	297.46	2369.75
(30/12, 20 H01, #2) 45b	159.85	298.95	2316.95
(30/12, 21 H23, #2) 50b	160.65	2100.76	2304.42
CRN- 189- 0350- 1	162.40	1991.62	2161.29
CRN- 189- 0901- 2	161.45	1981.60	2157.83

17/03/21

SO279 Analysis

- Bubbles removed from acid line
- VINDTA circulating bath set to 21.7°C
- Water baths for samples:
 - * R116 = 24.4°C
 - * RE106 = 24.7°C
- Peltier dial = 3.1 → display = 1.7°C
- N₂ ~ 0.7 bar
- DIC cell: *** (red) (cell + cathode cap)
#2 for anode cap + cathode solution = 100 mL
- Method: "3C standard separator modified LD temp"
- Database: SO279.dbs
- Killed cell, new all "20210317"
- Outer solution filled in TA electrode
- NaCl rinsing solution from 12/03
- Junks done at room temp.
- Acid batch B #1

SAMPLE ①

	mV start	CT	AT
SOS021 ✓	170.10	2255.76	2355.43
SOS022	170.15	2255.02	2334.41
SOS023	170.05	2255.39	2338.32
SOS024	170.00	2253.67	2338.64
CR1-189-0100-1	162.10	1987.01	2159.02
(17/12, 13H49, #2) 125	154.70	2086.47	2364.95
(30/12, 21H36, #1) 51a	160.30	2093.12	2308.07
(13/12, 22H08, #2) 8b	154.95	2095.80	2375.40
(23/12, 21H52, #2) 31b	154.85	2094.84	2373.79
(21/12, 11H31, #2) 26b	153.45	2082.03	2375.26
(30/12, 21H05, #1) 49a	160.15	2096.59	2309.55
(19/12, 17H52, #1) 20a	154.30	2095.32	2379.14
(09/12, 8H10, #1) 20	161.25	2100.01	2300.37
(08/12, 22H28, #2) 15	161.80	2102.71	2298.62
(29/12, 22H14, #2) 41b	158.50	2096.97	2328.33
CR1-189-0350-2	160.95	1981.85	2162.15
(20/12, 16H50, #1) 23a			
(19/12, 17H22, #2) 19b			
(21/12, 21H40, #2) 27b	153.55	2085.73	2374.01
(20/12, 16H50, #1) 23a	153.55	2082.82	2371.17
(19/12, 17H22, #2) 19b	154.35	2097.27	2376.86
(30/12, 12H04, #2) 42b	159.15	2096.95	2318.00

* Named 27b2 on VINITA
as 27b accidentally pressed "blank"

SAMPLE ID

	Stony mv 153.55	CT 2082.82	AT 2371.17
(22/12, 21H17, #1) 29a			
30/12, 19H48, #2) 44b			
22/12, 21H17 #1) 29a	153.70	2088.25	2371.42
30/12, 19H48, #2) 44b	159.89	2102.12	2317.71
1/12, 20H21, #1) 40	158.25	2094.34	2322.28
1/12, 9H04, #1) 22a	153.50	2084.30	2370.44
3/12, 20H30, #1) 47a	160.00	2101.76	2312.62
22/12, 10H47 #2) 28b	153.70	2079.94	2363.26
CR1-189-0040-1	162.15	1987.92	2161.33

18/03/21 SO279 Analysis

- Bubbles removed from acid line
- VINSTA circulating bath set to 24.7°C
- Water baths for samples:
 - * RM6 = 24.4°C
 - * RE106 = 24.7°C
- Peltier dial = 3.10 → display = 1.7°C
- N₂ ~ 0.7 bar
- DIC cell: *** (red) (cell + cathode cap)
#2 anode cap
- + cathode solution = 100mL
- Method: "3C Standard Separator Modified LD Temp"
- Database: SO279.xls
- Killed cell, new one: "20210318"
- Outer solution filled TA electrode
- Null rinsing solution from 12/03
- Junks done at room temp
- Acid batch #2 (made 17/03)

SAMPLE ID	mV start	CT	AT
SOS025	171.35	2241.61	2313.52
SOS026	171.30	2240.02	2315.71
SOS027	/	2239.34	2316.09
SOS028	171.45	2238.96	2317.23
CR1-189-0040-2	160.60	1980.53	2159.76
CR1-189-0157-1*	162.00	1989.93	2160.97
(21/12, 9H25, #2) 25b	153.35	2091.10	2378.35
(19/12, 17H22, #1) 19a	153.90	2099.72	2380.76
(30/12, 19H26, #2) 43b	159.35	2104.90	2319.49
(28/12, 15H16, #2) 38b	156.35	2104.95	2349.90
(8/12, 10H52, #1) 14a	154.05	2107.98	2384.65
(3/12, 22H08, #1) 8a	154.60	2110.76	2375.05
(3/12, 20H47, #2) 48b	159.55	2108.03	2313.98
(23/12, 11H33, #1) 30a	154.30	2102.31	2373.78
(3/12, 10H28, #2) 7b	154.50	2102.23	2370.82
(20/12, 22H08, #2) 24b	153.40	2085.04	2368.29
-RA-189-0905-1	161.80	1991.26	2163.23

* new mixing
solution NaCl
from 17/03

19/03/21

SO279 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 24.1°C
- Water baths for samples:
 - * RN6 = 24.4 °C
 - * RE106 = 24.7 °C
- Peltier dial = 3.1 → display = 1.7 °C
- N₂ ~ 0.7 bar
- DIC cell: *#*# (red) (cell + cathode up)
#2 anode cap
 - + cathode Solution = 100 mL
- Method: "3C Standard separator
modified LD temp"
- Database: SO279. dbs
- Killed cell, new cell: "20210319"
- Outer solution filled TA electrode
- NaCl rinsing Solution 17/03
- Junks done at room temp
- Acid batch B#2

* CRM bottle neck too wide
DIC ok, TA pipette didn't fill

SAMPLE ID	mV start	CT	AT
SOSO29	168.80	2222.38	2316.53
SOSO30	168.85	2228.73	2316.09
SOSO31	168.85	2227.77	2316.86
CRN-189-0226-189-0226-2	160.25	1977.47	2162.46
CRN-189-0226-1*	161.70	1989.08	(1936.83)
CRN-189-0226-2*		ABORTED	1 BAD!
CRN-189-0285-1		POPPED	
CRN-189-0285-2		ABORTED	
CRN-189-0285-3		ABORTED	
Sample SOSO32	not to be ignored,	young in any more just test	
CRN-189-0285-4	161.70	1998.87	2161.78
(9/12, 8H10, #2) 25	160.70	2113.18	2300.74
(30/12, 19H18, #1) 44 a	159.35	2110.82	2316.81
(25/12, 21H39, #2) 355	155.50	2104.04	2356.70
(19/12, 16H52, #2) 185	153.80	2108.84	2378.83
(30/12, 21H23, #1) 50a	160.05	2114.28	2306.76
(26/12, 22H42, #2) 373	156.40	2110.32	2336.37
(25/12, 11H15, #1) 349	155.30	2104.02	2357.38
(28/12, 21H39, #2) 39b	156.80	2109.44	2348.62
(29/12, 10H58, #1) 40a	158.20	2118.45	2329.47
(29/12, 22H44, #1) 41 a	157.90	2107.61	2329.17
CRN-189-0464-1	161.85	1993.94	2163.27

20/03/21 SO279 Analysis



Had to restart coulometer
because went from
 $99\% \rightarrow 87\% \rightarrow 0\%$
when turned cell on
→ now working

- Bubbles removed from acid line
- VINDTA circ. bath = 24.7°C
- Water baths for samples:
 - * RT 6 = 24.4°C
 - * RE 106 = 24.7°C
- Peltier dial = 3.1 → display = 1.2°C
- $\text{N}_2 \sim 0.7 \text{ bar}$
- DIC cell: * (red) (all + cathode cap)
 - #2 anode cap
 - + 100 mL cathode solution
- Method: "3C standard separator modified (D temp)"
- Database: SO279.xls
- Outer solution filled TA electrode
- NaCl rinsing solution 17/03
- Junks at room temp
- Acid batch R#2

- killed cell, new: "20210320" | CRN's info
includes STN⁶
N¹³

SAMPLE ID	m ^v start	CT	AT
SO5033	170.55	2215.97	2296.94
SO5034	170.60	2217.50	2297.80
SO5035	170.70	2219.59	2298.35
SO5036	170.70	2218.40	2299.12
CRN-189-05314	161.90	1990.96	2159.49
24/12, 23H05, #1) 33a	155.30	2099.29	2358.56
25/12, 11H15, #2) 34b	155.40	2100.19	2355.78
22/12, 10H17, #1) 28a	153.45	2088.24	2363.83
26/12, 10H55, #2) 36b	156.20	2107.98	2347.19
26/12, 10H55, #1) 36a	156.10	2112.53	2352.59
28/12, 21H39, #1) 39a	157.15	2116.67	2341.98
16/12, 11H10, #2) 11b	154.60	2106.94	2365.50
30/12, 20H14, #2) 46b	159.60	2114.91	2315.40
30/12, 20H14, #1) 46a	159.70	2121.28	2315.58
STN6N13-1 (80)	170.70	2181.63	2286.28
CRN-189-0464-2	160.90	1989.02	2161.58
STN6N24-2	153.50	2094.13	2370.84
STN4N24-2	154.80	2100.67	2365.48
STN3N24-2	154.95	2107.50	2369.28
STN6N24-1	153.50	2095.46	2371.41
STN7N24-2	153.60	2102.21	2372.22
STN5N13-1	165.55	2152.64	2302.81
STN1N10-1	169.90	2194.18	2304.08

* topped up H₃PO₄ (pre-made from 17-10-2019)
→ same batch as previous

10000

SAMPLE ID

STN
mV

CT

AT

STN 3N14 -1	166.05	2159.80	2295.99
STN 4N14 -1	166.50	2166.16	2296.93
STN 9N13 -1	168.15	2172.69	2290.91
CRN-189-0589-1	162.20	204.08	2160.48

only realized following
 day this might be a
 bit high

+ value

next day = 1990.64

21/03/21 SO₂T9 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 24.7 °C
- water baths for samples:
 - * R116 = 24.4 °C
 - * RE106 = 24.7 °C
- Peltier dial = 3.0 → display = 1.6 °C
- N₂ ~ 0.7 bar
- DIC cell = *** (red) (cell + cathode cap)
 - #2 anode cap
 - + 100 mL cathode solution
- Method: "3C std separator modified LD temp"
- Database: SO₂T9.dbs
- Outer solution filled TA elec.
- NaCl rinsing solution 20/03
- Junks of room temp
- Acid batch B #2
- Killed cell, new "20210321"

SAMPLE ID	^{mV} stout	CT	AT
SOS 037	169.70	2239.86	2295.74
SOS 038	169.50	2209.42	2296.78
SOS 039	169.50	2209.51	2298.56
CR1-189-0531-2	160.60	1977.41	2158.15
CR1-189-0776-1	161.80	1986.59	2158.78
STN6N16-2	156.95	2103.34	2345.78
STN7N18-2	153.30	2084.85	2370.88
STN5N16-2	157.20	2113.75	2355.77
STN1N15-1	161.20	2105.25	2298.39
STN3N 8 3-2	170.35	2185.90	2302.42
STN9N 8 1-2	170.20	2191.29	2302.90
STN5N 8 7-1	170.10	2176.75	2290.47
STN4N19-1	155.05	2104.02	2360.81
STN9N23-1	156.80	2112.12	2344.45
STN3N17-1	157.40	2122.32	2349.35
CR1-189-0589-2	160.80	1990.64	2159.60
STN6N16-1	157.25	2116.53	2345.94
STN7N11-2	171.05	2176.40	2288.52
STN1N07-1	170.60	2180.23	2291.13
STNSN11-1	170.35	2169.13	2274.67
STN3N07-1	170.25	2175.10	2290.14
STN4N12-2	170.55	2155.77	2272.43
STN9N 8 9-1	168.95	2164.20	2291.86

SAMPLE ID	m_start	CT	AT
STN6N 20-2	153.30	2088.26	2370.62
STN9N 18-2	156.90	2104.08	2342.26
STNSN 20-2 *	154.05	2112.94	2382.59
CRN-189-0836-1	161.90	1995.05	2161.54
CRN-189-0776-2	160.60	1992.56	2160.74

* new rinsing solution
(made 21/03)

24/03/21

SO279 Analysis

- Bubbles removed from acid line

- VINDTA air bath = 24.7 °C

- Water bath for samples:

* RT6 = 24.4 °C

* RE106 = 24.7 °C

1.7

- Peltier dial = 3.0 → display = 25 °C

- N₂ ~ 0.7 bar

- DIC cell = * (red) (cell + cathode cap)
#2 anode cap

+ 100 mL cathode solution

- Method = "3C std separator modified
LD temp"

- Database: SO279.xls

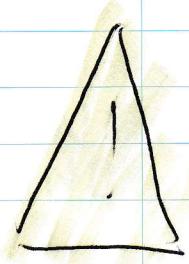
- Inner + Outer solutions filled TA elec.

- Null rinsing solution from 21/03

- Junks at room temp

- Acid batch B#2

- Killed cell, new: "20210324"



Coulometer

cell looks pale blue,
→ weird blank behaviour

SAMPLE ID	STANT	CT	AT
SOS040	170.70	2212.33	2300.18
SOS041	170.70	2218.29	2301.58
SOS042	170.85	2218.43	2300.02
CRM-189-0836-2	162.50	1987.34	2158.54
CRM-189-0716-1	163.95	1999.04	2158.72
STN4N18-2	158.20	2113.37	2350.29
STN3N21-1	156.70	2113.50	216 2367.18
STN7N16-1	158.75	2125.13	2347.76
STN9N16-2	163.40	2140.98	2316.04
STN5N19-2	156.30	2123.99	2381.02
STN9N09-2	171.15	2192.00	2291.43
STN1N06-1	172.55	2204.74	2303.00
STN7N10-2	172.65	2172.38	2270.56
STN6N08-2	172.70	2180.45	2272.23
STN6N19-1	157.20	2106.03	2360.48
CRM-189-0285- 50**	163.00	2018.70	2158.94
STN3N24-1	157.00	2159.00	2370.23
STN6N19-2	157.25	2163.87	2360.79
STN9N10-1	172.70	2218.18	2273.55
STN5N07-2	172.30	2243.63	2287.26
STN4N12-1	172.65	2222.52	2271.89
STN1N08-1	172.85	2207.40	2265.67
STN6N20-1			

* open 19/03, had popped then ablated
 → best to stick to TA and ignore DIC

SAMPLE ID	^m V start	CT	#J
STN 5 NH-2			
STN 1 N14-1			
STN 7 N 21-2			
CRN-189-0716-2	162.95	2040.53	2157.65
CRN-189-0654-1	164.26	2061.48	2159.66

25/03/21 SO279 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 24.7 °C
- Water baths for samples:
 - * RT6 = 24.4 °C
 - * RE106 = 24.7 °C
- Peltier dial = 3.0 → display = 1.7 °C
- N₂ ~ 0.7 bar
- DIC cell = * * * (yellow + green)
 - ⚠ NEW SOLUTIONS
(anode + cathode) ↗ cell + cathode cap
 - + anode cap
 - + 100 mL cathode solution
- Method = "3C std separator modified LD temp"
- Database: SO279. db5
- Outer solution filled TA elec.
- NaCl rinsing solution from 21/03
- Junks at room temp
- Acid batch B# 2
- Killed cell, new: "20210325"

SAMPLE ID	mV _{start}	CT	AT
SOS043	168.70	2205.07	2299.97
SOS044	168.70	2213.20	2302.78
SOS045	168.70	2222.67	2302.06
SOS046	168.70	2218.68	2302.00
		Coulometer behaving weirdly	cell still (anode leaking into cathode)
	→ took another cell (grey tape) + RWS caps (#1)		
	↳ used new solutions		
	→ restarted new cell "202103252"		
SOS047	168.45	2191.80	2303.33
SOS048	168.50	2176.31	2302.10
SOS049			
SOS050 →	ABORTED TOO MUCH PRESSURE, MAKING NEW CELL		

* Wrong titration parameters
 - New all ~~22103233~~

SAMPLE ID	mStart	CT	AT
S0S051		ABORTED	
S0S052		ABORTED	
S0S053		ABORTED	
S0S054 *		2218.82	
S0S055		2212.81	
S0S056		ABORTED	
S0S057	169.35	2208.60	NA/
S0S058	169.10	2205.64	2312.95
S0S059	169.10	2207.39	2313.21
CRN-189-0654-2	162.40	1976.63	2160.42
CRN-189-1085-1	163.65	1986.27	2158.32
STN6N20-1	154.70	2078.32	2371.55
STN5 N11-2	171.75	2148.94	2276.07
STN1N14-1	166.55	2123.91	2292.88
STN7N21-2	154.85	2078.84	2367.40
STN1N17-1	162.60	2094.36	2298.61
STN6N14-2	165.60	2127.92	2307.97
STN7N13-2	165.10	2126.18	2312.61
STN3N06-1	171.65	2167.24	2297.15
CRN-189-1146-1	163.55	1983.94	2160.99

26/03/21

SO279 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 24.7 °C
- Water baths for samples:
 - * RM6 = 24.4 °C
 - * RE106 = 24.7 °C
- Peltier dial = 3.0 → display = 1.7 °C
- N₂ ~ 0.7 bar
- DIC cell: #2 (RWS grey tape)
 - + RWS caps
 - + 100 mL cathode solution
- Method: "3C std separator modified LD temp"
- Database: SO279.dbs
- Outer solution filled TA elec.
- NaCl rinsing solution from 21/03
- Janks at room temp
- Acid batch B#2
- Killed off, new "20210326"

* bottle didn't fill for TA pipette

SAMPLE ID	^{mV} Stout	CT	AT
SOS060	167.50	2199.24	2315.28
SOS061	167.60	2204.17	2317.89
SOS062 *	(167.50)	2200.29	(2239.62)
SOS063	167.60	2202.47	2316.82
CRN-189-1146-2	162.05	1972.93	2159.28
CRN-189-0960-1	163.25	1982.35	2160.23
STN3N03-1	171.60	2169.97	2301.61
STN7N01-2	171.40	2161.67	2292.88
STN5N19-1 ↑	155.40	2090.38	2383.02
STN1N15-2 ↓	162.55	2091.79	2301.25
STN1N14-2	166.35	2118.09	2290.88
STN6N14-1	165.50	2123.49	2309.11
STN4N19-2	156.20	2083.55	2365.73
STN9N18-1	158.10	2087.07	2345.70
STN6N23-2 2*	154.50	2070.69	2371.67
STN5N12-1	172.15	2151.10	2292.67
CRN-189-1085-2	162.75	1972.39	2159.75
STN3N14-2	167.05	2122.43	2298.06
STN6N12-2	172.20	2158.36	2292.53
STN1N19-1	162.65	2087.13	2298.23
STN5N20-1	155.60	2090.12	2384.40



sample didn't go in
"STN6N23-2 2" aborted (line twisted)

Aborted, Twisted line

SAMPLE ID	^m Start	CT	AT
STN4N23-1	156.00	2078.70	2365.77
STN3N07-2	171.45	2196.30	2293.24
STN1N09-1	171.55	2162.98	2302.16
STN9N24-2	158.70	2090.69	2342.77
STN7N11-1	172.35	2156.51	2289.29
STN9N21-1	157.85	2086.07	2346.86
CAN-189-1023-1	163.10	1977.92	2161.81
CAN-189-0960-2	161.70	1967.89	2159.33

27/03/21

SO279 Analysis

- New acid batch B#3
 - ↳ bubbles removed from line + rinsing
- VINDTA circ. bath = 24.7 °C
- Water baths for samples:
 - * R16 = 24.4 °C
 - * RE106 = 29.7 °C
- Peltier dial = 3.1 → display = 1.7 °C
- N₂ ~ 0.7 bar
- DIC cell: # 2 (RWS grey tape)
 - + RWS caps
 - + 100 mL cathode solution
- Method: "3C std separator modified"
 - ↳ temp
- Database: SO279.xls

Inner + Outer solution filled TA elec.

- Not rinsing solution from 26/03
- Junks at room temp
- Killed all, new "20210327"

SAMPLE ID	mV start	CT	AT
SOSO 64	167.55	2210.24	2317.98
SOSO 65	167.60	2211.90	2322.71
SOSO 66	167.75	2207.87	2317.51
CRN-189-1023-2	162.00	1976.11	2159.38
CRN-189-0962-1	163.10	1982.02	2160.03
STN3N19-1	155.70	2087.85	2366.97
STN4N01-2	171.30	2166.92	2298.50
STN5N23-1	155.30	2092.40	2381.42
STN9N08-1	171.35	2167.74	2300.00
STN1N24-1	162.40	2090.89	2296.35
STN6N01-2	171.50	2159.22	2293.47
STN1N17-2	162.40	2091.26	2296.96
STN3N06-2	171.45	2164.88	2297.89
STN4N23-2	155.80	2080.05	2364.41
STN9N23-2	157.90	2087.32	2347.33
CRN-189-1090-1	163.35	1979.27	2162.83
STN3N21-2	156.00	2083.56	2370.58
STN4N11-2	171.40	2153.74	2287.64
STN5N01-1	171.45	2164.76	2299.40
STN9N11-1	170.50	2169.25	2315.31
STN7N12-2	171.50	2149.98	2287.28
STN1N06-2	171.40	2169.47	2302.70

SAMPLE ID	^{mV} start	CT	AT
STN6N07-1	171.45	2150.11	2283.59
STN1N24-2	162.25	2090.49	2298.27
STN7N21-1	154.90	2071.30	2372.33
STN1N08-2	172.30	2137.24	2262.89
CRA-189-1026-1	163.00	1979.68	2160.24

28/03/21 SO279 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 21.7 °C
- Water baths for samples:
 - * R116 = 24.4 °C
 - * RE106 = 24.7 °C
- Peltier dial = 2.9 → display = 1.7 °C
- $N_2 \sim 0.7$ bar
- DIC: #2 (RWS grey tape)
 - + RWS caps
 - + 100 mL cathode solution
- Method: "3C" ~~#~~ separate modified LD temp"
- Database: SO279.xls
- Outer solution filled in TA elec.
- Nail rinsing solution from 26/03
- Junks at room temp
- Acid batch B#3
- Killed cell, new cell "20210328"

* not much grease yesterday, so left on stopper
than usual

SAMPLE ID	start mV	C T	A T
SOS067	168.00	2203.27	2312.77
SOS068	168.00	2205.17	2316.24
SOS069	168.05	2203.78	2315.88
CRN-189-0962-2	161.65	1965.74*	2160.11
CRN-189-1149-1	163.00	1981.11	2160.31
STN4N24-1	155.40	2077.32	2367.09
STN7N22-1	154.20	2070.58	2370.43
STN9N11-2	170.10	2170.82	2316.40
STN6N08-1	171.20	2140.55	2273.41
STN1N07-2	171.20	2157.41	2294.79
STN9N13-2	168.60	2135.89	2289.64
STN3N08-2	171.05	2140.92	2277.24
STN4N14-2	167.00	2130.47	2295.80
STN5N23-2	155.30	2090.85	2383.46
STN7N16-2	157.50	2090.09	2350.69
CRN-189-1090-2	161.70	1969.52	2159.89
STN3N08-1	170.95	2139.68	2276.98
STN5N16-1	158.00	2096.58	2357.66
STN7N09-2	171.20	2147.07	2284.33
STN6N07-2	171.75	2148.25	2284.23
STN1N20-1	161.85	2087.06	2298.72
STN5N24-2	154.80	2086.01	2382.55

SAMPLE ID	Start	CT	AT
STN4 N13-2	171.25	2159.55	2297.63
STN9 N24-1	157.30	2086.15	2345.21
STN3 N13-1	171.35	2164.48	2298.28
STN9 N08-2	170.80	2163.58	2298.32
CRA-189-1211-1	162.75	1981.38	2159.14

29/03/21 SO279 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 24.7°C
- Water baths for samples:
 - * R116 = 24.4°C
 - * RE106 = 24.7°C
 - * RE106 (RWS) = 24.7°C
- Peltier dial = 3.1 \rightarrow display = 17°C
- $\text{N}_2 \sim 0.7 \text{ bar}$
- D1C: # 2 (RWS grey tape)
 - + RWS caps
 - + 100 mL cathode solution
- Method: "3C^{std}" separator modified
 - LID temp"
- Database: SO279, dbs
- Outer solution filled in TA ~~etc~~ etc
- No deionizing solution from 27/03
- Joints at room temp
- Acid batch B#3
- Killed cell, new cell "20210329"

SAMPLE ID	^m V start	CT	AT
SOS070	167.35	2205.22	2316.85
SOS071	167.45	2207.53	2317.98
CRN-189-1026-2	161.30	1976.10	2161.22
CRN-189-0718-1	162.55	1983.08	2163.62
STN6N12-1	171.40	2169.74	2300.61
STN7N10-1	171.10	2149.41	2271.77
STN5N12-2	171.35	2168.72	2294.24
STN1N09-2	170.85	2171.19	2304.46
STN3N23-1	155.30	2088.28	2372.09
STN4N21-1	155.30	2082.90	2364.03
STN4N21-2	157.30	2091.43	2347.70
STN4N11-1	170.85	2159.38	2291.31
STN6N23-1	153.90	2075.75	2373.31
STN6N13-2	171.20	2155.29	2288.65
CRN-189-1149-2	161.55	1971.29	2162.64
STN7N12-1	171.10	2156.30	2288.59
STN5N13-2	165.90	2128.14	2306.32
STN1N10-2	170.80	2170.25	2307.28
STN7N18-1	154.00	2077.64	2376.71
STN3N23-2	155.20	2087.69	2371.89
STN9N10-2	170.95	2140.26	2272.71
STN5N24-1	154.70	2092.29	2384.79

SAMPLE ID	mv Start	CT	AT
STN3N13-2	171.10	2165.17	2298.96
STN7N24-1	153.70	2074.75	2375.03
STN7N22-2	153.85	2075.07	2372.84
ORI-189-0777-1	162.45	1982.29	2161.99

30/03/21

SO279 Analysis

- Bubbles removed from acid line
- VINDTA circ. bath = 24.7°C
- Water baths for samples:
 - * RT 6 = 24.4°C
 - * RE 106 = 24.7°C
 - * RE 106 (RWS) = 24.7°C
- Peltier dial = 3.1 \rightarrow display = 1.7°C
- $\text{N}_2 \sim 0.7 \text{ bar}$
- DIC cell: #2 (RWS grey tape)
 - + RWS caps
 - + 100 mL cathode solution
- Method: "3C std separator
modified LD temp"
- Database: SO279 - dbs
- Outer + inner solutions filled TA elec.
- Nasl rinsing solution from 27/03
- Junks at room temp
- Acid batch B#3
- Killed cell, new "20210330"

SAMPLE ID	mV start	CT	AT
SOS072	167.50	2212.91	2320.32
SOS073	167.75	2209.60	2320.01
CR11-189-0718-2	161.60	1975.51	2161.68
CR11-189-0349-1	162.90	1981.28	2160.52
STN3N19-2	155.60	2093.75	2368.74
STN9N01-1	171.10	2174.32	2304.07
STN4N21-2	155.60	2088.10	2364.67
STN7N09-1	171.20	2158.58	2285.66
STN1N20-2	162.20	2094.64	2300.09
STN5N01-2	171.35	2168.11	2302.07
STN7N01-1	171.20	2166.13	2294.54
STN1N01-1	171.25	2178.30	2309.70
STN6N01-1	171.15	2160.98	2294.75
STN3N17-2	158.30	2100.97	2353.96
CR1-189-0777-2	161.60	1971.42	2162.81
STN4N18-1	157.20	2090.74	2353.46
STN9N16-1	162.25	2109.24	2316.11
STN1N01-2	171.15	2178.43	2310.93
STN5N15-1	161.45	2112.76	2331.08
STN4N01-1	171.05	2165.76	2300.91
STN1N19-2	161.95	2092.24	2302.10
STN5N15-2	161.40	2109.69	2331.10
STN7N13-1	164.40	2119.88	2313.23
CR1-189-0898-1	162.90	1980.75	2159.68