Date: 180705 | Station: P01 T-dependent constant 0 2 4 6 8 10 12 14 16 18 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

120

100

80 down

120

Date: 180705 | Station: P02 T-dependent constant 02468 10121416 18222246 332334 36 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 024680246802468024680246802468033346 1.4 1.6

400

300

200

100

400

down

300

200

200

150

250

250

100

down

200

150

Date: 180705 | Station: P04 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

500

400

200

100

400

500

100

down

200

300

Date: 180705 | Station: P07 T-dependent constant 0 - 2 - 4 - 6 - 8 - 10 - 12 - 14 - 14 16 18 20 22 24 26 -28 -30 -2 -4 -6 -10 -14 -16 -18 20 22 24 26 28 Depth [m]

Note: 100 - 1 linetype down mean **-**∙ up 1.2 correction pCO2 pCO2_RT_mean 1.4 16 18 20 22 24 26 28 30 0 2 4 6 8 10 12 1.6 16 18 20 22 24 26 28 30 180 210 90 120 210 150 150 180 90 120

down

Date: 180705 | Station: P08 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

300

200

100

500

100

down

200

300

500

down Date: 180705 | Station: P10 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

600

Depth [m]

200

400

600

down

down

down

down

down

Date: 180709 | Station: P07 T-dependent constant 0 2 4 6 8 10 12 14 16 18 Depth [m] | Depth linetype down mean - up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 20 22 24 26 28 30

200

200

100

300

400

100

down

400

Date: 180709 | Station: P08 T-dependent constant 0 2 **-**4 **-**6 -8 -10 -12 -14 -16 -18 -20 -22 -24 0 2 **-**4 **-**6 -8 10 -12 -14 -16 18 -20 -22 -24 0 linetype 2 -4 -- down 6 -Depth [m] --- mean **--**∙ up 1.2 16 correction 18 pCO2 20 -22 · pCO2_RT_mean 24 0 2 **-**4 **-**6 -8 -10 -1.4 12 -14 -16-18 -20 -22 -24 0 2 -4 -6 -8 -10 -1.6 12 -14 -16 -18 -20 -22 -24 175 175

125

100

150

100

down

125

Date: 180709 | Station: P09 T-dependent constant Debth [m] | Debth linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 20 22 24 26 28 30

200

100

down

300

400

400

300

200

Date: 180709 | Station: P10 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

300

400

200

100

500

down

100

300

400

500

200

150

100

300

100

down

150

250

200

250

Date: 180709 | Station: P12 constant T-dependent 0 2 4 6 8 10 12 14 16 18 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

160

down

80

100

120

140

160

100

80

120

200

160

200

80

down

120

160

Date: 180709 | Station: P13 T-dependent constant 0 2 4 6 8 10 12 14 16 18 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

120

90

150

120

90

150

down

200

400

600

down

200

400

Date: 180718 | Station: P01 T-dependent constant linetype down mean Depth [m] up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

200

600

600

down

400

Date: 180718 | Station: P02 T-dependent constant 0 2 4 · 6 8 . 10-12 -14 -16 18 20 22 2 6 -8 -10 -12 14 -16 18 20 · 22 linetype 2 down 4 6 mean Depth [m] 10 12 14 - up 10 -1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 -4 · 6 8 10-1.4 12 14 -16 18 -20 -2<u>2</u> 2 4 6 8 10 1.6 12 -14 -16-18 -

20 · 22 ·

75

100

125

150

75

down

100

125

Date: 180718 | Station: P03 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

down

200

400

200

600

400

Date: 180718 | Station: P04 T-dependent constant linetype down - mean --· up 1.2 correction pCO2 pCO2_RT_mean 4 1.6

600

400

600

down

200

400

175 75

down

Date: 180718 | Station: P07 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

200

600

600

down

400

down

down

Date: 180718 | Station: P10 T-dependent constant linetype down - mean **--**∙ up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

200

800

down

600

400

600

800

down

300

down

100

150

200

250

300

200

250

Depth [m]

26 28 30

100

down

down

Date: 180723 | Station: P01 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600 100

down

300

200

400

500

600

500

400

300

100

Date: 180723 | Station: P02 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

600

down

400

Date: 180723 | Station: P03 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

600

down

400

22 -24 -26 -

down

Date: 180723 | Station: P05 T-dependent constant 0 4 6 8 10 12 14 20 22 24 26 28 30 0 2 4 6 8 10 12 14 16 $\begin{matrix} 18 & 20 & 22 & 24 & 26 & 28 & 30 & 0 & 24 & 68 & 80 & 10 & 12 & 146 & 182$ linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 16 18 20 22 24 26 28 30 0 2 4 6 8 10 12 1.6 16 18 20 22 24 26 28 30

300

200

300

100

down

100

200

Depth [m]

Date: 180723 | Station: P07 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

400

600

400

200

800

down

Date: 180723 | Station: P09 T-dependent constant 2 6 8 10 12 -14 -16 18 20 2<u>2</u> 2 6 · 8 -10 -12 -14 16 18 20 2<u>2</u> linetype 2 down 6 mean · up 10 1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 6 8 10 1.4 12 14 16 18 20 -2<u>2</u> 2 4 6 8 -10 1.6 12 -14 -16-18 -20 ·

100

150

22

100

150

down

Date: 180723 | Station: P10 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

800

down

600

200

400

400

200

600

Date: 180723 | Station: P11 T-dependent constant 0 2 4 6 8 10 12 -14 16 18 20 22 2 6 · 8 -10 -12 -14 16 18 -20 · 22 linetype 2 down 4 6 mean 8 -- up 10 1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 4 6 8 10-1.4 12 14 16 18 -20 -2<u>2</u> 2 4 6 8 10 1.6 12 -14 -16-18 -20 ·

22

100

150

200

down

100

200

Date: 180723 | Station: P12 T-dependent constant 0 2 4 6 8 . 10 -12 -14 -16 18 20 22 2 6 · 8 -10 -12 14 16 18 20 · 22 linetype 2 down 4 6 mean **--**∙ up 10 1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 4 6 8 10-1.4 12 14 16 18 -20 -2<u>2</u> 2 4 6 8 10 1.6 12 -14 -16 18

20 - 50

150

100

200

50

down

100

150

Date: 180723 | Station: P06 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

600

down

200

down down

down

down

down

Date: 180730 | Station: P05 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

800

down

200

400

800

600

600

400

200

Depth [m]

Date: 180730 | Station: P07 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

600

100

down

200

300

400

500

500

300

200

100

400

Depth [m]

Date: 180730 | Station: P08 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

down

600

400

down

Date: 180730 | Station: P10 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

down

600

400

Date: 180730 | Station: P11 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

200

down

600

600

200

400

Depth [m]

Date: 180730 | Station: P12 T-dependent constant 0.046680244688024688024880248880248880248880248880248880248802488024888024880024880248800048800048800048800048800048800048800048800048800048800048800048800048800048800048800048800 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

Depth [m]

400

200

600

800

down

200

400

600

Date: 180730 | Station: P06 T-dependent constant 2 -4 6 8 -10 -12 -14 -16-18 2 4 · 6 8 . 10 -12 -14 -16 -18 linetype 2 down 4 6 mean Depth [m] - up 1.2 correction 14 -16 pCO2 18 pCO2_RT_mean 2 4 6 8 -1.4 10 -12 -14 -16 **-**18 -2 4 6 8 1.6 10 -12 -14-16-18 -

250

200

150

100

100

down

150

200

Date: 180730 | Station: P13 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

Depth [m]

400

200

600

down

200

400

down

Date: 180802 | Station: P04 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

200

400

600

800

800

down

Depth [m]

Date: 180802 | Station: P05 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

400

200

600

200

down

400

Date: 180802 | Station: P07 T-dependent constant 0.0446800.044600.044600.044600.044600.044600.044600.04000.044600.044000.044000.044600.044600.0446000.0446000.0446000.0 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

200

down

400

600

400

200

Depth [m]

Date: 180802 | Station: P08 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 600 400 500 100 400 500 600

200

down

300

100

200

300

200

300

100

down

200

Date: 180802 | Station: P10 constant T-dependent 0.046680244688024688024880248880248880248880248880248880248802488024888024880024880248800048800048800048800048800048800048800048800048800048800048800048800048800048800048800048800 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

200

down

400

600

200

400

Depth [m]

Date: 180802 | Station: P11 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

600

down

200

300

400

28

100

300

200

400

100

down

Date: 180802 | Station: P06 T-dependent constant 2 4 · 6 -8 10 12 -14 16 18 20 22 2 6 -8 -10 -12 14 16 18 20 22 linetype 2 down 4 6 mean • up 10 -1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 · 4 · 6 8 10-1.4 12 14 16 18 20 22 2 4 -6 -8 10 1.6 12 -14 -16-18 20 · 22

250

300

250

100

150

200

300

down

100

150

Date: 180802 | Station: P13 T-dependent constant 0.0446800.044600.044600.044600.044600.044600.044600.04000.044600.044000.044000.044000.044600.044000.044000.044000.0440 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

400

600

800

down

200

400

200

Date: 180806 | Station: P01 T-dependent constant linetype down mean Depth [m] up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 500 750 500 250 250 750

down

Date: 180806 | Station: P02 T-dependent constant 0.0446800.446800.446800.044600.044600.044600.044600.044600.044600.044600.044600.044600.044000.044000.044600.044600.044000.044000.044000.044000.0440000 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

800

down

200

600

200

400

800

600

400

down

Date: 180806 | Station: P04 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

600

200

400

800

down

200

400

800

Date: 180806 | Station: P05 T-dependent constant linetype down mean Depth [m] up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

600

200

down

200

Date: 180806 | Station: P07 T-dependent constant 0.0466802446880246880248802488024888024888024880248802488024880248802488024888024888024880024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880 linetype down mean Depth [m] up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 600 200 600 400 400 200

down

Date: 180806 | Station: P08 T-dependent constant 0.0466802446880246880248802488024888024888024880248802488024880248802488024888024888024880024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 600 400 400 600 200 200

down

Date: 180806 | Station: P09 T-dependent constant 0 2 4 · 6 -8 . 10 -12 -14 -16 18 -20 · 22 2 4 6 -8 -10 -12 -14 16 18 20 · 22 linetype 2 down 4 6 mean Depth [m] 10 12 14 8 -- up 10 -1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 -4 6 8 10-1.4 12 14 16 18 -20 -2<u>2</u> 2 4 · 6 8 10 1.6 12 -14 -16-18 20 22 300 300

250

200

100

150

100

down

150

200

Date: 180806 | Station: P10 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

600

200

down

200

Date: 180806 | Station: P11 T-dependent constant linetype down mean Depth [m] up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

600

200

400

800

down

200

Date: 180806 | Station: P12 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

200

400

800

down

400

200

600

800

Date: 180806 | Station: P06 T-dependent constant 0.0446800.044600.044600.044600.044600.044600.044600.04000.044600.044000.044000.044000.044600.044000.044000.044000.0440 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 600 600 200 400 200 400

down

Date: 180806 | Station: P13 T-dependent constant 0.0446800.7446800.446800.044600.044600.044600.044600.044600.044600.0446000.044600.044600.044000.044600.044000.044600.044600.044600.044 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

750

500

1000

1250

7**5**0

250

500

1000

1250

down

250

Date: 180815 | Station: P01 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

down

600

400

Date: 180815 | Station: P02 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

400

600

800

down

200

400

200

Date: 180815 | Station: P03 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

600

200

down

400

Date: 180815 | Station: P04 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

800

down

200

400

600

400

200

600

800

Date: 180815 | Station: P05 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

400

600

800

down

200

400

Date: 180815 | Station: P07 T-dependent constant 0.0446800.044600.044600.044600.044600.044600.044600.04000.044600.044000.044000.044600.044600.0446000.0446000.0446000.0 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 600

600

200

down

400

200

400

Date: 180815 | Station: P08 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

600

200

down

400

Date: 180815 | Station: P09 T-dependent constant 2 4 6 8 10 12 -14 -16 18 -20 · 22 2 6 -8 -10 -12 14 16 18 20 · 22 linetype 2 down 4 6 mean 8 -- up 1.2 correction 16 pCO2 18 -20 pCO2_RT_mean 2<u>2</u> 2 · 4 6 8 10-1.4 12 14 -16-18 -20 -2<u>2</u> 2 4 · 6 -8 10 1.6 12 -14 -16-

300

400

18 **-**20 **-**22 **-**

200

300

400

down

Date: 180815 | Station: P10 T-dependent constant linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

600

800

down

200

400

400

Date: 180815 | Station: P11 T-dependent constant 0246810146861124688012468012468012468801246880124688012488012468801246880124688012468801246880124688012468801246880124680 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

400

200

800

down

200

400

800

600

Date: 180815 | Station: P12 T-dependent constant 0.0446800.044600.044600.044600.044600.044600.044600.04000.044600.044000.044000.044000.044600.044000.044000.044000.0440 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

750

500

250

1000

down

250

500

750

1000

Date: 180815 | Station: P06 T-dependent constant Depth [m] https://doi.org/10.1016/10.1 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

600

800

400

600

800

down

200

400

Date: 180815 | Station: P13 T-dependent constant 0.0466802446880246880248802488024888024888024880248802488024880248802488024888024888024880024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

750

500

1000

1250

1000

1250

down

250

750

500

250

Date: 180820 | Station: P01 T-dependent constant Depth [m] https://doi.org/10.1016/10.1 linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6 1000 1000 500 750 250 750 250 500

down

down

Date: 180820 | Station: P12 T-dependent constant 024681011468102246810114681022468101146810224681011 linetype down ••• mean **--**∙ up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

750

500

750

250

down

250

500

Date: 180820 | Station: P13 T-dependent constant Depth [m]

Depth [m] linetype down mean up 1.2 correction pCO2 pCO2_RT_mean 1.4 1.6

900

600

300

down

900

600