Date: 180705 | Station: P01 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 120 120 100 100 80 down

Date: 180705 | Station: P02 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

200

300

100

400

200

100

300

400

down

150

100

down

Date: 180705 | Station: P04 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

200

300

500

400

Depth [m]

200

100

300

400

500

100

down

Date: 180705 | Station: P07 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 16 18 20 22 24 26 28 30 210 90 180 120 210 120 150 150 180 90 down

down

Date: 180705 | Station: P10 RT: constant RT: T-dependent 0.0466802446880246880248802488024888024888024880248802488024880248802488024888024888024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880004880 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 400 400 200 600 200 600 down

Date: 180705 | Station: P14 RT: constant RT: T-dependent 2 -4 tau_factor: 0.8 6 -8 -10 -12 -14 -16 -2 4 · 6 tau_factor: 1 8 -10 -12 -14 -16 cast 2 4 down 6 -Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16 -2 4 6 tau_factor: 1.4 8 -10-12 -14 -16 2 4 6 tau_factor: 1.6 8 -10 -12 -14 -16 -120 120 140 100 100 140

down

Date: 180707 | Station: P14 RT: T-dependent RT: constant 2 -4 tau_factor: 0.8 6 -8 -10-12 -14 -2 -4 tau_factor: 1 6 -8 -10 -12 -14 cast 2 · down Depth [m] tau_factor: 1.2 -- up correction pCO2 12 pCO2_RT_mean 14 -2 · tau_factor: 1.4 6 -8 -10 -12 -14 -2 tau_factor: 1.6 6 -8 -10-12 -14 -

100

120

140

100

80

120

140

down

Date: 180709 | Station: P02 RT: constant RT: T-dependent 0 2 · 4 -6 tau_factor: 0.8 8 10 12 14 16 18 20 · 22 24 0 2 4 6 8 tau_factor: 1 10 -12 -14 16 18 20 22 · 24 0 2 cast down 6 Depth [m] tau_factor: 1.2 -- up correction 16 18 pCO2 20 pCO2_RT_mean 22 24 0 2 6 -8 tau_factor: 1.4 10-12 -14 16 18 -20 -22 24 0 2 4 6 -8 tau_factor: 1.6 10 12 -14 16 18 -20 -22 -24 100 80 120 140 80 100 120 140 down

Date: 180709 | Station: P05 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 20 22 24 26 28 30 200 200 175 75 100 175 100 125 150 125 150 down

Date: 180709 | Station: P07 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 200 400 400 300 200 100 300 100 down

Date: 180709 | Station: P08 RT: constant RT: T-dependent 0 2 4 6 8 tau_factor: 0.8 10 -12 -14 -16-18 20 -22 -24 0 2 4 6 8 tau_factor: 1 10 -12 -14 -16 18 **-**22 -24 0 2 cast Depth [m] down tau_factor: 1.2 ---- up correction 16 18 pCO2 20 pCO2_RT_mean 22 24 0 2 **-**4 **-**6 **-**8 tau_factor: 1.4 10 -12 -14 -16 18 -20 -22 · 24 0 2 4 6 8 tau_factor: 1.6 10 12 -14 -16 -18 -20 22 -24 175 175 100 125 150 100 150 125 down

Date: 180709 | Station: P10 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 300 500 300 200 100 200 400 500 400 100 down

Date: 180709 | Station: P11 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 300 200 150 200 250 100 150 250 300 100

down

Date: 180709 | Station: P12 RT: T-dependent RT: constant tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

160

down

80

100

120

160

140

120

140

100

Date: 180709 | Station: P14 RT: constant RT: T-dependent 2 -4 · 6 tau_factor: 0.8 8 -10 12 -14 -16 18 2 · 4 -6 tau_factor: 1 8 10 -12 -14 -16 -18 2 cast 4 down 6 tau_factor: 1.2 Depth [m] -- up correction 14 pCO2 16 pCO2_RT_mean 18 2 4 -6 tau_factor: 1.4 8 -10 -12 -14 -16 **-**18 2 · 4 · 6 tau_factor: 1.6 8 10 -12 -14 -16-18

150

125

75

100

75

down

175

125

150

175

Date: 180709 | Station: P06 RT: constant RT: T-dependent 0 4 6 8 10 12 14 16 18 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 16 18 20 22 24 26 28 30 160 160 200 200 80 120 120 down

Date: 180709 | Station: P13 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 150 90 120 90 120 150 down

Date: 180710 | Station: P14 RT: constant RT: T-dependent 2 -4 tau_factor: 0.8 6 8 -10 -12 -14 -2 4 tau_factor: 1 6 8 -10 -12 -14 cast 2 down Depth [m] 8 10 tau_factor: 1.2 6 --- up 8 correction 12 pCO2 pCO2_RT_mean 14 -2 tau_factor: 1.4 6 8 -10 -12 -14 -2 tau_factor: 1.6 6 8 10 -12 -14 -

100

80 down 120

100

80

Date: 180711 | Station: P14 RT: constant RT: T-dependent 2 -4 6 tau_factor: 0.8 8 -10 12 -14 -16-18 2 4 · 6 tau_factor: 1 8 10 -12 -14 -16 -18 -2 cast 4 down 6 tau_factor: 1.2 Depth [m] -- up correction 14 pCO2 16 pCO2_RT_mean 18 2 4 6 tau_factor: 1.4 8 10 -12 -14 -16 **-**18 2 4 6 tau_factor: 1.6 8 10 12 -14 -16 -

18 -

90

120

150

180

down

90

120

150

Date: 180716 | Station: P01 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

down

200

400

400

200

Date: 180716 | Station: P14 RT: constant RT: T-dependent 2 -4 -6 tau_factor: 0.8 8 -10 -12 -14 -16 -2 -4 -6 tau_factor: 1 8 10 -12 -14 -16 cast 2 -4 down 6 tau_factor: 1.2 Depth [m] ---- up 8 correction 12 pCO2 14 pCO2_RT_mean 16 -2 -4 · 6 tau_factor: 1.4 8 10-12 -14 -16 2 -4 · 6 tau_factor: 1.6 8 10 -12 -14 -16 **-**

150

120

60

90

180 60

down

120

90

180

Date: 180718 | Station: P01 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 400 600 200 400 200 down

Date: 180718 | Station: P03 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

Depth [m]

400

200

600

down

600

400

Date: 180718 | Station: P04 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

Depth [m]

400

200

600

down

200

400

Date: 180718 | Station: P05 RT: constant RT: T-dependent 0 2 4 6 8 tau_factor: 0.8 10 12 14 16 18 20 22 24 26 0 2 4 6 8 10 tau_factor: 1 12 · 14 · 16 18 20 -22 -24 -26 -0 -2 -4 -6 -8 -10 -12 -14 -16 -18 cast down tau_factor: 1.2 up correction pCO2 20 22 24 26 0 2 4 pCO2_RT_mean 8 tau_factor: 1.4 10 12 -14 16 18 20 22 - 24 - 26 - 0 - 2 - 4 - 6 - 8 tau_factor: 1.6 10 12 14 16 18 20 22

175 75

down

100

125

175

150

Depth [m]

24 26

100

125

Date: 180718 | Station: P07 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

400

200

600

down

400

200

Depth [m]

Date: 180718 | Station: P10 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 400 400 600 800 200 200 600 800

Date: 180718 | Station: P12 RT: constant RT: T-dependent 0 2 4 6 8 10 12 14 16 18 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 20 22 24 26 28 30

300

250

Depth [m]

200

100

150

250

300

down

150

100

Date: 180718 | Station: P14 RT: constant RT: T-dependent 2 -4 tau_factor: 0.8 6 -8 -10 -12 -14 -16 -2 -4 -6 tau_factor: 1 8 -10 -12 -14 -16 cast 2 · 4 down 6 -Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16 -2 · 4 · 6 tau_factor: 1.4 8 10 12 -14 -16 2 · 4 · 6 tau_factor: 1.6 8 10 12 **-**14 -16 -

100

125

150

75

50

down

100

125

150

75

down

Date: 180718 | Station: PX1 RT: constant RT: T-dependent 2 -4 6 tau_factor: 0.8 8 -10 12 14 -16 18 2 · 4 -6 tau_factor: 1 8 10 -12 14 16 -18 2 cast 4 · down 6 tau_factor: 1.2 Depth [m] -- up correction 14 pCO2 16 pCO2_RT_mean 18 2 4 6 tau_factor: 1.4 8 -10 -12 -14 -16-18 2 4 6 tau_factor: 1.6 8 10 -12 -14 -16-18 -

180

140

100

220

down

100

140

180

Date: 180718 | Station: PX2 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

400

200

down

600

200

400

Depth [m]

Date: 180723 | Station: P01 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 500 500 300 300 400 200 400 100 200 100 down

Date: 180723 | Station: P02 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 400 200 200

Date: 180723 | Station: P03 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 200 400 200

down

Date: 180723 | Station: P05 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

Depth [m]

100

200

300

100

down

200

Date: 180723 | Station: P07 RT: constant RT: T-dependent 02468012146802246803334 02468012146802246803334 0246801214680246803334 02468012146802246803334 02468012146802246803334 02468012146802246803334 02468012146802246803334 02468012146802246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 02468012146802468012146802468012146802468012146802468012146802468012146802468012146802468012146801468012146801214680121468 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

800

600

800

down

200

400

400

200

Depth [m]

Date: 180723 | Station: P14 RT: constant RT: T-dependent 2 -4 tau_factor: 0.8 6 -8 10 -12 -14 -16 -2 · 4 · 6 tau_factor: 1 8 -10 -12 -14 -16 cast 2 4 down 6 -Depth [m] tau_factor: 1.2 -- up 8 correction pCO2 14 pCO2_RT_mean 16 2 · 4 6 tau_factor: 1.4 8 -10-12 -14 -16 2 4 6 tau_factor: 1.6 8 -10 -12 -14 -16 -

250

200

250

down

100

150

200

150

Date: 180723 | Station: P06 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 400 200 200 down

down

Date: 180725 | Station: P14 RT: constant RT: T-dependent 2 -4 6 tau_factor: 0.8 8 10 -12 -14 -16 -2 -4 · 6 tau_factor: 1 8 10 -12 -14 -16 cast 2 · 4 down 6 Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16 2 · 4 6 tau_factor: 1.4 8 10-12 -14 -16 2 4 6 tau_factor: 1.6 8 10 -12 -14 -16 **-**

150

100

200

250

100

50

150

200

250 50

Date: 180730 | Station: P03 RT: constant RT: T-dependent 2 4 6 8 10 tau_factor: 0.8 16 · 18 · 20 · 22 · 24 · 26 · 6 · 8 · 10 · 12 · 14 · tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 24 26 0 2 4 6 8 tau_factor: 1.6 12 14 down

Date: 180730 | Station: P05 RT: constant RT: T-dependent 0.0466802446880246880248802488024888024888024888024880248802488024880248802488024888024888024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880004880 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 800 800 600 400 400 200 200 down

Date: 180730 | Station: P07 RT: constant RT: T-dependent 0044600074600074600007460007460000746000746000746000746000746000746000074600007460000746000746000074600074000740007400074000740007400074000740007400074000074000074000740007400 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 100 500 400 200 300 500 100 200 300 400 down

Date: 180730 | Station: P08 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 400 200 200 down

Date: 180730 | Station: P10 RT: constant RT: T-dependent 024680124680246803334 024680124680246803334 024680124680246803334 0246801246803334 0246801246803334 0246801246803334 0246801246803334 0246801246803334 0246801246803334 0246801246803334 0246801246803334 0246801246803334 0246801246001246801246801246012460012460124600124600124600124600124600124600124600012460001246 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 200 400 200

Date: 180730 | Station: P11 RT: T-dependent RT: constant tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 400 200 200

Date: 180730 | Station: P12 RT: constant RT: T-dependent 0.0466802446880246880248802488024888024888024888024880248802488024880248802488024888024888024880024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 400 600 800 **4**00 600 200 200 800 down

Date: 180730 | Station: P14 RT: constant RT: T-dependent 2 -4 tau_factor: 0.8 6 -8 -10 -12 -14 -2 -4 tau_factor: 1 6 -8 -10 12 -14 cast 2 · down Depth [m] tau_factor: 1.2 6 --- up correction pCO2 12 pCO2_RT_mean 14 -2 · 4 tau_factor: 1.4 6 -8 -10 -12 -14 -2 tau_factor: 1.6 6 8 10 -12 -14 -

140

180

220

100

220

down

100

140

180

Date: 180730 | Station: P06 RT: constant RT: T-dependent 2 -4 6 tau_factor: 0.8 8 10 -12 -14 -16-18 2 4 · 6 tau_factor: 1 8 10 -12 -14 -16 -18 2 cast 4 down 6 Depth [m] tau_factor: 1.2 -- up correction 14 pCO2 16 pCO2_RT_mean 18 2 4 6 tau_factor: 1.4 8 -10 -12 -14 -16 **-**18 2 4 6 tau_factor: 1.6 8 10 -12 -14 -16 18 250 250 100 100 200 150 150 200 down

Date: 180730 | Station: P13 RT: T-dependent RT: constant tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 200 200 400 down

Date: 180731 | Station: P14 RT: constant RT: T-dependent 2 -4 -6 tau_factor: 0.8 8 10 -12 -14 -16 -2 -4 -6 tau_factor: 1 8 10 -12 -14 -16 cast 2 -4 down 6 -Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16 -2 -4 · 6 tau_factor: 1.4 8 10 12 -14 -16 2 -4 -6 tau_factor: 1.6 8 10 -12 -14 -

250

down

100

150

200

150

100

200

250

16 -

Date: 180802 | Station: P04 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 200 600 800 200 600 400 400 800 down

Date: 180802 | Station: P05 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 400 400 600 600 200 200 down

Date: 180802 | Station: P07 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 400 200 200 down

Date: 180802 | Station: P08 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 100 500 100 400 500 200 300 400 200 300 down

Date: 180802 | Station: P10 RT: constant RT: T-dependent 0.0466802446880246880248802488024888024888024888024880248802488024880248802488024888024888024880024880024880004880004880004880004880004880004880004880004880004880004880004880004880004880 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 200 400 200 400

down

Date: 180802 | Station: P11 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

400

200

600

down

200

400

Depth [m]

300

200

400

28

100

200

400

100

down

300

Date: 180802 | Station: P14 RT: T-dependent RT: constant 2 -4 tau_factor: 0.8 6 -8 -10 -12 -14 -16 -2 4 6 · tau_factor: 1 8 -10 -12 -14 -16 cast 2 4 · down 6 -Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16-2 4 6 tau_factor: 1.4 8 -10-12 -14 -16 2 4 6 tau_factor: 1.6 8 -10 -12 -14 -16 -

250

200

250

100

down

150

200

150

100

Date: 180802 | Station: P13 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

200

400

800

down

200

400

600

800

Depth [m]

Date: 180806 | Station: P01 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 750 500 750 250 500 250 down

Date: 180806 | Station: P02 RT: constant RT: T-dependent 0044600074600074600007460007460000746000746000746000746000746000746000074600007460000746000746000074600074000740007400074000740007400074000740007400074000074000074000740007400 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 800 800 600 400 600 200 200 400 down

Date: 180806 | Station: P04 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

800

600

600

200

400

800

down

200

400

Depth [m]

Date: 180806 | Station: P05 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 200 200 400 400 down

Date: 180806 | Station: P07 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 200 400 200 400 down

Date: 180806 | Station: P08 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 200 400 200 down

Date: 180806 | Station: P09 RT: constant RT: T-dependent 0 2 4 6 tau_factor: 0.8 8 10-12 -14 16 18 20 22 2 4 6 tau_factor: 1 8 -10 -12 -14 16 18 20 22 2 cast 4 down 6 tau_factor: 1.2 Depth [m] 10 12 14 8 --- up 10 correction 16 pCO2 18 pCO2_RT_mean 20 2<u>2</u> 2 -4 6 tau_factor: 1.4 8 10 12 14 16 18 20 2<u>2</u> 2 4 · 6 tau_factor: 1.6 8 10 12 -14 -16-18 20 22 300 250 300 150 200 250 100 150 200 100 down

Date: 180806 | Station: P10 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 200 200 400 400 down

Date: 180806 | Station: P11 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 800 800 200 400 200 400 down

Date: 180806 | Station: P12 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

800

down

400

200

600

800

400

200

Depth [m]

Date: 180806 | Station: P14 RT: constant RT: T-dependent 2 -4 · 6 tau_factor: 0.8 8 . 10 12 14 -16 18 2 · 4 -6 tau_factor: 1 8 10 -12 14 16 -18 2 cast 4 down 6 tau_factor: 1.2 Depth [m] -- up 8 correction 14 pCO2 16 pCO2_RT_mean 18 2 · 4 -6 tau_factor: 1.4 8 -10 -12 14 -16-18 2 4 -6 tau_factor: 1.6 8 10 12 14 -16 -18 -250 200 250

150

100

200

100

down

150

Date: 180806 | Station: P06 RT: constant RT: T-dependent 0.0446800.044600.044600.044600.044600.044600.044600.04000.044600.044000.044000.044600.044600.0446000.0446000.0446000.0 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 800 600 400 200 400 200 800 down

Date: 180806 | Station: P13 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 750 1000 1250 250 500 1000 750 250 500 1250 down

Date: 180807 | Station: P14 RT: constant RT: T-dependent 2 tau_factor: 0.8 6 8 -10 -12 -14 -2 -4 tau_factor: 1 6 8 -10 -12 -14 cast 2 down Depth [m] tau_factor: 1.2 6 --- up correction 12 pCO2 pCO2_RT_mean 14 -2 tau_factor: 1.4 6 8 -10 -12 -14 -2 · tau_factor: 1.6 6 8 -10 -12 -

14 -

100

150

200

100

250

down

150

200

250

down

Date: 180815 | Station: P02 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600

200

down

400

400

200

Date: 180815 | Station: P03 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 400 600 200 400

down

Date: 180815 | Station: P04 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 800 600 600 800 400 200 400 200 down

Date: 180815 | Station: P05 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 800 800 200 200 400

Date: 180815 | Station: P07 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 200 400 200 400

Date: 180815 | Station: P08 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 200 400 200 400

Date: 180815 | Station: P09 RT: constant RT: T-dependent 0 2 4 6 tau_factor: 0.8 8 10 12 -14 16 18 20 22 2 6 · tau_factor: 1 8 10 12 14 16 18 20 22 2 cast 4 down 6 tau_factor: 1.2 Depth [m] 10 12 14 8 --- up correction 16 pCO2 18 pCO2_RT_mean 20 2<u>2</u> 2 4 6 tau_factor: 1.4 8 10 12 14 16 18 -20 -2<u>2</u> 2 4 · 6 tau_factor: 1.6 8 10 12 -14 -16-18 -20 ·

300

400

22

200

300

400

down

Date: 180815 | Station: P10 RT: constant RT: T-dependent 02468102-4681002-4681002-4681002-468100000000000000000000000000000000000 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

600

800

600

800

down

200

400

400

200

Date: 180815 | Station: P11 RT: constant RT: T-dependent 02468012146802246803334 02468012146802246803334 0246801214680246803334 02468012146802246803334 02468012146802246803334 02468012146802246803334 02468012146802246803334 02468012146802246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 0246801214680246803334 02468012146802468012146802468012146802468012146802468012146802468012146801468012146801214680121468012146801214680121468014 tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

800

down

200

800

600

400

600

200

400

Date: 180815 | Station: P12 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

750

500

250

down

750

500

250

Date: 180815 | Station: P14 RT: constant RT: T-dependent 2 -4 6 tau_factor: 0.8 8 10 -12 -14 -16 -2 · 4 6 · tau_factor: 1 8 10-12 -14 -16 cast 2 4 down 6 -Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16 -2 · 4 6 tau_factor: 1.4 8 10 -12 -14 -16 2 -4 6 tau_factor: 1.6 8 10 -12 -14 -

225

175

150

200

16 -

175

150

200

225

Date: 180815 | Station: P06 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 600 600 400 800 200 800 200 400 down

Date: 180815 | Station: P13 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 Depth [m] up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 1000 750 500 750 1000 250 1250 250 500 1250 down

Date: 180816 | Station: P14 RT: constant RT: T-dependent 2 -4 tau_factor: 0.8 6 -8 -10 -12 -14 -16 -2 -4 -6 tau_factor: 1 8 -10 -12 -14 -16 cast 2 · 4 down 6 -Depth [m] tau_factor: 1.2 -- up correction pCO2 14 pCO2_RT_mean 16 -2 · 4 6 tau_factor: 1.4 8 -10 -12 -14 -16 2 4 6 tau_factor: 1.6 8 -10 -12 -14-16 -200 250 250 200

150

down

Date: 180820 | Station: P01 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 1000 1000 500 750 250 500 750 250 down

Date: 180820 | Station: P11 RT: constant RT: T-dependent 0 2 4 6 8 10 tau_factor: 0.8 12 14 16 · 18 · 20 · 22 · 24 · 26 · 6 · 8 · 10 · 12 · 14 · tau_factor: 1 16-18 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 10 12 14 16 18 20 22 24 26 0 2 4 6 8 tau_factor: 1.6 10 12 14 16 18 20 22 24 26 600 600 200 400 200 400 down

Date: 180820 | Station: P12 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 -- up correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6

750

750

250

down

500

250

500

Date: 180820 | Station: P14 RT: constant RT: T-dependent 2 tau_factor: 0.8 6 -8 -10 -12 -14 -2 -4 tau_factor: 1 6 -8 -10 -12 -14 cast 2 down Depth [m] tau_factor: 1.2 -- up correction pCO2 12 pCO2_RT_mean 14 -2 -4 tau_factor: 1.4 6 -8 -10 -12 -14 -2 tau_factor: 1.6 6 8 10 -12 -14 -

300

200

400

down

200

400

Date: 180820 | Station: P13 RT: constant RT: T-dependent tau_factor: 0.8 tau_factor: 1 cast down tau_factor: 1.2 up Depth [m] correction pCO2 pCO2_RT_mean tau_factor: 1.4 tau_factor: 1.6 900 900 300 600 300 600 down