













Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss Abbot 1 Abbot Abbot 2 Abbot 3 65 2.2 60 2 55 1.6 50 1.8 1.5 1.6 45 100 0 20 40 80 100 60 80 Abbot 4 Abbot 5 Abbot 6 Ainsworth 25 0.7 1.3 0.68 3.5 0.66 0.9 20 60 60 80 20 40 60 80 20 100 40 80 100 40 100 0 100 40 0.024 Alison Amery Arneb 350 1.25 300 0.022 4.5 1.2 250 0.02 200 1.15 0.018 150 1.1 100 80 100 100 80 100 60 20 40 60 40 80 20 40 60 20 3.2 Astrolabe Atka Aviator Bach 3.6 12 3.4 11 2.6 10 **1**00 100 40 100 40 60 80 0 20 80 20 40 60 80 20 40 Barber Baudouin 55 Borchgrevink Brahms 0.22 40 50 0.215 0.21 45 35 0.205 40 0.2 30 20 40 60 80 100 40 0.84 0.65 Brunt Stancomb Campbell Cape Washington 39 0.21 0.83 0.6 38 0.2 0.82 37 0.55 36 0.81 0.19 35 0.5 8.0 0.18 34 0.79 0.45 20 40 100 40 80 100 40 100 0.35 Cheetham 0.115 Chuaunov Cirque Fjord 0.36 0.11 response to thinning 0.3 0.34 0.105 0.32 0.1 response to calving 0.25 0.095 0.3 100 40 80 100 80 100

Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss 0.12 Clarke Bay Commandant Charcot Cook 30 2.1 0.115 29.5 2 29 0.11 1.9 28.5 0.105 1.8 100 100 100 40 40 80 0 20 40 80 14 Dalk Dawson Lambton Cosgrove Crosson 0.58 30 13 0.56 12 25 11 0.54 10 0.52 20 60 80 100 100 100 80 20 40 20 40 60 80 0 20 40 60 80 20 40 60 100 Deakin Dennistoun Dibble Dotson 45 1.6 40 30 1.55 35 0.9 25 1.5 30 1.45 20 0.8 1.4 100 100 40 60 80 40 80 20 40 80 60 20 Drygalski Drury 0.44 Edward VIII Ekstrom 11 18 0.42 15 10 0.4 10 0.38 12 0.36 5 0 80 100 100 80 100 100 20 40 60 40 80 40 20 40 60 ×10⁻³ -0.034 Falkner Eltanin Bay Erebus Ferrigno 10 0.42 -0.036 0.4 -0.038 4.6 0.38 -0.04 4.4 0.36 -0.042 4.2 40 60 40 60 80 100 20 40 60 40 Filchner Fisher Fitzgerald 1.05 60 400 0.32 55 0.95 300 0.3 50 0.9 45 0.85 200 0.28 0.8 60 80 100 80 100 20 40 80 20 Fox Glacier Flatnes 2.9 1.75 Fox Ice Stream 2.8 response to thinning 1.65 2.7 1.6 2.6 response to calving 1.55

40

80

20 40

80 100

20 40

100

Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss Français Gannutz Garfield 0.17 23 0.4 22.5 0.16 0.35 42 22 0.15 0.3 21.5 0.14 0.25 21 3.8 100 100 40 100 40 40 80 0 80 20 40 GeikieInlet George VI Getz 1 100 Getz 1.2 160 90 1.1 3.5 140 80 120 0.9 70 0.8 20 60 100 60 80 20 60 100 40 20 40 100 0 40 80 100 20 40 60 Gillet Getz 2 Hamilton Hamilton Piedmont 0.3 0.72 2.8 26 0.28 1.8 0.71 2.4 0.26 0.7 1.6 2.2 0.24 0.69 20 100 20 100 40 80 60 80 0 20 80 100 20 60 Hayes Coats Coast Hannan 0.48 Harbord Glacier Harmon Bay 2.6 0.85 0.5 0.47 2.4 0.48 0.8 0.46 0.46 0.75 2.2 0.45 0.44 0.7 0.44 0.42 0.65 0.43 0.4 100 40 100 40 80 100 60 80 100 40 60 80 20 80 20 60 20 40 30 Helen Holmes Holt Horn Bluff 26 0.9 25 25 24 0.8 23 0.6 22 20 0.7 0.4 21 40 100 80 100 40 80 Hoseason Hull Hummer Point 0.48 20 1.8 1.6 0.47 1.4 0.46 1.7 15 1.2 0.45 0.43 10 20 40 100 40 60 80 100 20 40 80 100 20 40 Ironside Jackson Jelbart 0.09 1.05 35 response to thinning 0.08 30 0.07 0.95 response to calving 25 0.06 0.9 40 60 80 100 80 80 100

Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss Kirkby Larsen A Larsen B 0.1 16 14 0.095 4.5 12 0.09 0.9 10 0.8 0.085 100 100 80 100 100 20 40 0 40 20 40 20 55 Larsen E Larsen C Larsen D Larsen D 1 0.18 50 50 12 45 0.16 45 40 40 0.14 35 35 0.12 80 100 80 100 80 20 40 60 20 40 60 20 40 60 100 20 40 60 Larsen F Larsen G Lauritzen Lazarev 2.2 2.1 2.8 2 2.6 8.5 1.9 2.4 1.8 22 80 100 100 100 20 40 100 40 0 20 40 80 20 Lillie Liotard Mandible Cirque Manhaul 1.12 0.4 0.026 0.024 0.35 1.08 0.022 1.06 0.02 0.3 100 100 40 100 60 100 40 20 80 20 40 80 40 Marin 7.5 Marret Mariner 1.45 Matusevitch 0.032 0.85 1.4 0.8 0.03 1.35 0.75 0.028 0.7 1.25 0.026 0.65 6.5 40 60 100 100 20 40 60 40 60 5.8 May Glacier Mendelssohn Mertz 3.5 0.076 22 5.7 0.074 20 5.6 0.072 18 2.5 0.07 5.5 100 20 40 80 100 40 60 80 100 1.15 Moscow University Moubray 200 1.05 response to thinning 1.05 150 0.95 100 response to calving 0.95 0.9 0.9

80 100

20

80 100

20 40 60 80 100

Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss Mulebreen Nickerson 4.5 3.5 Ninnis Nivl Nordenskiold Noll 0.56 0.54 0.9 0.52 0.8 0.5 0.7 0.15 Parker Paternostro Perkins Philbin Inlet 0.016 0.089 0.14 0.014 0.088 0.13 0.012 0.087 0.12 0.01 0.086 0.11 0.008 0.085 0.1 0.006 6.5 Pine Island Porter Pourquoi Pas Prince Harald 1.3 13.5 1.1 12.5 5.5 11.5 0.9 0 0.076 Publications Quatermain Point Quar Rayner Thyer 0.074 7.5 0.072 0.07 6.5 0.068 5.5 0.066 Rennick Richter Ronne 0.75 0.7 Rose Point Ross East Ross West 0.75 response to thinning 0.7 response to calving 0.65

Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss 0.38 Rydberg Peninsula 1 Sandford Rund Bay Rydberg Peninsula 2 0.8 1.2 0.54 0.37 1.1 0.52 0.75 0.5 0.36 0.9 0.48 0.35 0.7 0.46 100 100 80 20 40 80 0 20 40 60 100 0 40 80 20 40 Shackleton Shirase Skallen Slava 0.78 50 18 0.76 17 45 0.74 16 0.72 40 15 0.7 14 0.68 35 13 0.66 60 100 40 60 80 100 20 20 40 20 40 60 80 100 20 40 60 100 45 SmithInlet Sorsdal Stange Sulzberger 26 40 0.5 1.33 24 35 0.48 1.32 22 30 20 1.31 25 0.46 100 20 100 20 40 80 40 60 80 20 40 80 100 1.46 Suter Suvorov Swinburne 0.018 0.22 1.44 0.21 0.016 1.42 0.2 0.014 1.4 0.19 0.012 0.18 1.38 0.17 0.01 80 100 100 20 100 60 20 40 60 40 60 80 40 80 20 40 105 0.14 Totten Thomson Thwaites Tinker 0.7 250 0.135 100 0.65 0.13 200 0.6 0.125 95 150 0.12 0.55 90 100 0.115 40 60 100 20 40 60 80 20 40 60 80 20 40 0.05 Tucker Utsikkar 1.2 5.5 1.15 3.2 -0.05 1.1 1.05 -0.1 2.8 -0.15 0.95 100 40 60 80 40 80 100 20 80 100 60 80 Venable Verdi Vigrid 12.5 1.7 12 response to thinning 11.5 1.6 11 1.5 response to calving 10.5 1.4 1.3

80 100

20 40

80 100

20

80 100

Modeled grounding line flux (Gt yr -1) Instantaneous response to hypothetical percent mass loss Vincennes Bay Vovevkov Walgreen Coast 1 Walgreen Coast 2 14 0.55 13.5 2.8 0.5 2.6 13 0.45 2.4 12.5 100 100 100 0 20 40 100 0 20 40 80 20 40 Watt Bay West Whittle / Wilkins 2.5 18 80 2.4 17 2.3 16 70 0.8 2.2 15 2.1 0.7 14 60 13 100 60 20 60 80 100 20 40 60 80 0 20 40 80 100 40 100 20 40 60 Williamson Wilma Robert Downer Withrow Wordie (Airy Rotz Seller) 1.35 0.85 0.9 0.8 1.25 0.8 1.2 0.7 0.75 1.15 0.6 100 0 20 40 100 20 40 60 80 100 20 40 20 0.85 Wordie (Harriott) Wordie (Prospect) Wordie (Cape Jeremy) Wordie (Harriott Headland) 0.07 0.28 0.8 3.5 0.75 0.26 0.065 0.7 0.24 0.06 0.65 0.22 100 40 80 100 40 80 100 20 60 100 20 40 60 20 60 40 0.11 Wylde Other Zubchatyy Zelee 16 0.1 0.09 14 2.5 1.2 0.08 12 0.07 1.1 0.06 10 40 60 20 40 60 20 40 5000 Antarctica 4500 response to thinning 4000 3500 3000 2500

60 80 100