

Model no.	Flux rate, ΔV (km ³ /yr)	Depth, d (km)	Vertical half-radius, a (km)	Chamber horizontal half-radius, b (km)	Ice Thickness, I_h (km)	Results shown in Fig. #
Flux rate simulations						
Fr1	0.0001	5	0.62	0.62	0, 0.01, 1, 2, 3	3, 7
Fr2	0.0005	5	0.62	0.62	0, 1, 2, 3	3
Fr3	0.001	5	0.62	0.62	0, 1, 2, 3	3
Fr4	0.0024	5	0.62	0.62	0, 1, 2, 3	3, 4
Fr5	0.005	5	0.62	0.62	0, 1, 2, 3	3, 4
Fr6	0.0067	5	0.62	0.62	0, 1, 2, 3	3, 4
Fr7	0.01	5	0.62	0.62	0, 1, 2, 3	3, 4
Fr8	0.05	5	0.62	0.62	0, 0.01, 1, 2, 3	3, 7
Fr9	0.0001	5	0.98	0.49	0, 1, 2, 3	3
Fr10	0.0005	5	0.98	0.49	0, 1, 2, 3	3
Fr11	0.001	5	0.98	0.49	0, 1, 2, 3	3
Fr12	0.0024	5	0.98	0.49	0, 1, 2, 3	3, 4
Fr13	0.005	5	0.98	0.49	0, 1, 2, 3	3, 4
Fr14	0.0067	5	0.98	0.49	0, 1, 2, 3	3, 4
Fr15	0.01	5	0.98	0.49	0, 1, 2, 3	3, 4
Fr16	0.05	5	0.98	0.49	0, 1, 2, 3	3
Fr17	0.0001	5	0.39	0.78	0, 1, 2, 3	3
Fr18	0.0005	5	0.39	0.78	0, 1, 2, 3	3
Fr19	0.001	5	0.39	0.78	0, 1, 2, 3	3
Fr20	0.0024	5	0.39	0.78	0, 1, 2, 3	3, 4
Fr21	0.005	5	0.39	0.78	0, 1, 2, 3	3, 4
Fr22	0.0067	5	0.39	0.78	0, 1, 2, 3	3, 4
Fr23	0.01	5	0.39	0.78	0, 1, 2, 3	3, 4
Fr24	0.05	5	0.39	0.78	0, 1, 2, 3	3
Additional flux rate simulations						
FV1	0.0024	3	0.62	0.62	0, 1, 2, 3	4
FV2	0.005	3	0.62	0.62	0, 1, 2, 3	4
FV3	0.0067	3	0.62	0.62	0, 1, 2, 3	4
FV4	0.01	3	0.62	0.62	0, 1, 2, 3	4
FV5	0.0024	7	0.62	0.62	0, 1, 2, 3	4
FV6	0.005	7	0.62	0.62	0, 1, 2, 3	4
FV7	0.0067	7	0.62	0.62	0, 1, 2, 3	4
FV8	0.01	7	0.62	0.62	0, 1, 2, 3	4
FV9	0.0024	3	0.98	0.49	0, 1, 2, 3	4
FV10	0.005	3	0.98	0.49	0, 1, 2, 3	4
FV11	0.0067	3	0.98	0.49	0, 1, 2, 3	4
FV12	0.01	3	0.98	0.49	0, 1, 2, 3	4
FV13	0.0024	7	0.98	0.49	0, 1, 2, 3	4
FV14	0.005	7	0.98	0.49	0, 1, 2, 3	4
FV15	0.0067	7	0.98	0.49	0, 1, 2, 3	4
FV16	0.01	7	0.98	0.49	0, 1, 2, 3	4
FV17	0.0024	3	0.39	0.78	0, 1, 2, 3	4
FV18	0.005	3	0.39	0.78	0, 1, 2, 3	4
FV19	0.0067	3	0.39	0.78	0, 1, 2, 3	4
FV20	0.01	3	0.39	0.78	0, 1, 2, 3	4
FV21	0.0024	7	0.39	0.78	0, 1, 2, 3	4
FV22	0.005	7	0.39	0.78	0, 1, 2, 3	4
FV23	0.0067	7	0.39	0.78	0, 1, 2, 3	4
FV24	0.01	7	0.39	0.78	0, 1, 2, 3	4
Depth simulations						
Dp1	0.0024	2	0.62	0.62	0, 1, 2, 3	5
Dp2	0.0024	3	0.62	0.62	0, 1, 2, 3	5
Dp3	0.0024	4	0.62	0.62	0, 1, 2, 3	5
Dp4	0.0024	5	0.62	0.62	0, 1, 2, 3	5
Dp5	0.0024	6	0.62	0.62	0, 1, 2, 3	5
Dp6	0.0024	7	0.62	0.62	0, 1, 2, 3	5
Dp7	0.0024	8	0.62	0.62	0, 1, 2, 3	5
Dp8	0.0024	9	0.62	0.62	0, 1, 2, 3	5
Dp9	0.0024	2	0.98	0.49	0, 1, 2, 3	5
Dp10	0.0024	3	0.98	0.49	0, 1, 2, 3	5
Dp11	0.0024	4	0.98	0.49	0, 1, 2, 3	5
Dp12	0.0024	5	0.98	0.49	0, 1, 2, 3	5
Dp13	0.0024	6	0.98	0.49	0, 1, 2, 3	5
Dp14	0.0024	7	0.98	0.49	0, 1, 2, 3	5
Dp15	0.0024	8	0.98	0.49	0, 1, 2, 3	5
Dp16	0.0024	9	0.98	0.49	0, 1, 2, 3	5
Dp17	0.0024	2	0.39	0.78	0, 1, 2, 3	5
Dp18	0.0024	3	0.39	0.78	0, 1, 2, 3	5
Dp19	0.0024	4	0.39	0.78	0, 1, 2, 3	5
Dp20	0.0024	5	0.39	0.78	0, 1, 2, 3	5
Dp21	0.0024	6	0.39	0.78	0, 1, 2, 3	5
Dp22	0.0024	7	0.39	0.78	0, 1, 2, 3	5
Dp23	0.0024	8	0.39	0.78	0, 1, 2, 3	5
Dp24	0.0024	9	0.39	0.78	0, 1, 2, 3	5
Radius simulations*						
Ra1	0.0024	5	0.5	0.5	0, 1, 2, 3	6
Ra2	0.0024	5	1	1	0, 1, 2, 3	6
Ra3	0.0024	5	1.5	1.5	0, 1, 2, 3	6
Ra4	0.0024	5	2	2	0, 1, 2, 3	6
Ra5	0.0024	5	2.5	2.5	0, 1, 2, 3	6
Ra6	0.0024	5	3	3	0, 1, 2, 3	6
Ra7	0.0024	5	3.5	3.5	0, 1, 2, 3	6
Ra8	0.0024	5	4	4	0, 1, 2, 3	6
Ra9	0.0024	5	0.5	0.49	0, 1, 2, 3	6
Ra10	0.0024	5	1	0.49	0, 1, 2, 3	6
Ra11	0.0024	5	1.5	0.49	0, 1, 2, 3	6
Ra12	0.0024	5	2	0.49	0, 1, 2, 3	6
Ra13	0.0024	5	2.5	0.49	0, 1, 2, 3	6
Ra14	0.0024	5	3	0.49	0, 1, 2, 3	6
Ra15	0.0024	5	3.5	0.49	0, 1, 2, 3	6
Ra16	0.0024	5	4	0.49	0, 1, 2, 3	6
Ra17	0.0024	5	0.39	0.5	0, 1, 2, 3	6
Ra18	0.0024	5	0.39	1	0, 1, 2, 3	6
Ra19	0.0024	5	0.39	1.5	0, 1, 2, 3	6
Ra20	0.0024	5	0.39	2	0, 1, 2, 3	6
Ra21	0.0024	5	0.39	2.5	0, 1, 2, 3	6
Ra22	0.0024	5	0.39	3	0, 1, 2, 3	6
Ra23	0.0024	5	0.39	3.5	0, 1, 2, 3	6
Ra24	0.0024	5	0.39	4	0, 1, 2, 3	6
Seasonal ice variation simulation						
Se1	0.0001	3	0.62	0.62	0.01, 1	7
Se2	0.05	3	0.62	0.62	0.01, 1	7
Westdahl Volcano simulation						
Wv1	0.0024	7.2	1.39	1.39	0, 1	8