

Table 1: GBM relative influence and R2 by ecoregion

Ecoregion	DOY TDD 5%	DOY TDD 10%	DOY TDD 15%	DOY TDD 20%	R ²	Area (km ²)
Alaska Range Transition	24.1 (6.4)	26.7 (5.5)	28.8 (7.2)	20.4 (5.8)	0.44	5135
Aleutian Meadows	22.5 (6.7)	26.6 (6.9)	23.7 (6.7)	27.3 (9.1)	0.58	2344
Arctic Tundra	22.4 (2.3)	37.4 (3.8)	23.9 (3.3)	16.3 (2.8)	0.53	10694
Bering Taiga	62.3 (3.4)	14 (2.8)	14.5 (2.8)	9.2 (1.5)	0.51	6556
Bering Tundra	21.1 (4)	37.8 (9.3)	15.2 (3.6)	25.9 (6.2)	0.62	2259
Coast Mountains Transition	38.2 (8)	25.1 (5.9)	12.5 (3)	24.2 (5.9)	0.52	1123
Coastal Rainforests	5.7 (1.3)	4.5 (1.3)	12.2 (4.4)	77.6 (5.1)	0.50	6978
Intermontane Boreal	54.8 (3.8)	10.6 (1.6)	10.1 (5.3)	24.4 (4.4)	0.76	18149
Pacific Mountains Transition	50.8 (5.3)	23.3 (2.5)	11.8 (2.3)	14.1 (2.7)	0.70	606

Table 2: GCM start of season projections

Decade	AK Range	Aleut Mdws	Arc Tun	Bering Tai	Bering Tun	Coast Mt	Coast Rain	Boreal	Pacific Mtn
1960	125	120	131	118	127	123	124	115	109
1970	121	117	129	116	125	121	119	112	108
1980	122	118	129	116	125	121	120	112	108
1990	122	117	130	116	126	121	120	113	107
2000	115	109	127	110	123	118	111	108	104
2010	114	108	126	110	122	117	108	107	101
2020	111	106	126	106	121	116	103	107	100
2030	108	105	125	102	119	115	98	106	99
2040	108	107	126	101	120	116	98	107	98
2050	103	107	123	95	118	115	91	106	95
2060	102	108	122	93	117	114	89	106	94
2070	101	110	121	92	116	115	88	106	93
2080	99	111	120	86	116	115	85	107	92
2090	99	111	119	86	116	115	86	108	92
2100	99	109	118	87	116	114	88	107	93

Table 3: Start of season change in days between historical and 2090s

Region	SOS_delta
Intermontane Boreal	-7
Coast Mountains Transition	-8
Aleutian Meadows	-9
Bering Tundra	-11
Arctic Tundra	-12
Pacific Mountains Transition	-17
Alaska Range Transition	-26
Bering Taiga	-32
Coastal Rainforests	-38