

Comparison of Air pollution exposure models - RAQDPS-FW and CanOSSEM

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Dependencies/Libraries

Importing data

```
canossem <- read.csv("../data/canossem_mo_hsda_2012_2022.csv")
raqdps <- read.csv("../data/raqdps_mo_hsda_2012_2023.csv")
raqdpsfw <- read.csv("../data/raqdpsfw_mo_hsda_2012_2023.csv")

glimpse(canossem)
```

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Rows: 2,112
Columns: 6
$ X                <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, ~
$ HLTH_SERVICE_DLVR_AREA_CODE <int> 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, 11, ~
$ year              <int> 2012, 2012, 2012, 2012, 2012, 2012, 2012, 2012, ~
$ month             <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1, ~
$ monthly_smoke     <dbl> 8.491782, 9.066194, 7.394915, 6.377788, 5.~
$ date              <chr> "2012-01-01", "2012-02-01", "2012-03-01", ~
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Data cleaning and merging models

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Rows: 960
Columns: 18
$ HLTH_SERVICE_DLVR_AREA_CODE <chr> "11", "11", "11", "11", "11", "11", "11", ~
$ year              <int> 2018, 2018, 2018, 2018, 2018, 2018, 2018, ~
$ month             <int> 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 1, ~
$ average_mo        <dbl> 8.833910, 8.690479, 8.287176, 7.269358, 6.~
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$ date <date> 2018-01-01, 2018-02-01, 2018-03-01, 2018-~
$ id <chr> "WHSE_ADMIN_BOUNDARIES.BCHA_HEALTH_SERV_DE~
$ HLTH_HSDA_SYSID <int> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
$ HLTH_SERVICE_DLVR_AREA_NAME <chr> "East Kootenay", "East Kootenay", "East Ko~
$ HLTH_SERVICE_DLVR_AREA_ID <chr> "11 EK", "11 EK", "11 EK", "11 EK", "11 EK~
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$ FEATURE_AREA_SQM <dbl> 44984695870, 44984695870, 44984695870, 449~
$ FEATURE_LENGTH_M <dbl> 1721941, 1721941, 1721941, 1721941, 172194~
$ OBJECTID <int> 321, 321, 321, 321, 321, 321, 321, 321, 321, 32~
$ SE_ANNO_CAD_DATA <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ geometry <POLYGON [m]> POLYGON ((1542406 861035.9,..., PO~

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Rows: 960

Columns: 18

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$ HLTH_SERVICE_DLVR_AREA_NAME <chr> "Central Vancouver Island", "Central Vanc~
$ year <int> 2018, 2019, 2020, 2021, 2022, 2018, 2019, ~
$ month <int> 1, 1, 1, 1, 1, 2, 2, 2, 2, 2, 3, 3, 3, 3, ~
$ average_mo <dbl> 1.1823266, 1.8982887, 0.6025444, 1.0088832~
$ date <date> 2018-01-01, 2019-01-01, 2020-01-01, 2021-~
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$ FEATURE_AREA_SQM <dbl> 12597986421, 12597986421, 12597986421, 125~
$ FEATURE_LENGTH_M <dbl> 2982627, 2982627, 2982627, 2982627, 298262~
$ OBJECTID <int> 332, 332, 332, 332, 332, 332, 332, 332, 332, 33~
$ SE_ANNO_CAD_DATA <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ geometry <MULTIPOLYGON [m]> MULTIPOLYGON (((1005879 454..~

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Rows: 816

Columns: 18

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$ HLTH_SERVICE_DLVR_AREA_NAME <chr> "Central Vancouver Island", "Central Vanc~
$ year <int> 2021, 2022, 2021, 2022, 2018, 2020, 2021, ~
$ month <int> 1, 1, 2, 2, 3, 3, 3, 3, 4, 4, 4, 4, 4, 5, ~
$ average_mo <dbl> 1.0508371, 1.6388784, 0.6337970, 0.8760472~

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$ date <date> 2021-01-01, 2022-01-01, 2021-02-01, 2022-~
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$ geometry <MULTIPOLYGON [m]> MULTIPOLYGON (((1005879 454..~

```

Rows: 816

Columns: 20

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$ average_mo_canossem <dbl> 8.287176, 7.269358, 6.492557, 6.393615, 8.~
$ date <date> 2018-03-01, 2018-04-01, 2018-05-01, 2018-~
$ HLTH_SERVICE_DLVR_AREA_NAME <chr> "East Kootenay", "East Kootenay", "East Ko~
$ year <int> 2018, 2018, 2018, 2018, 2018, 2018, 2018, ~
$ month <int> 3, 4, 5, 6, 7, 8, 9, 10, 11, 4, 5, 6, 7, 8~
$ average_mo_raqdpsfw <dbl> 0.5471414, 0.6716308, 1.6900884, 0.8440516~
$ id <chr> "WHSE_ADMIN_BOUNDARIES.BCHA_HEALTH_SERV_DE~
$ HLTH_HSDA_SYSID <int> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, ~
$ HLTH_SERVICE_DLVR_AREA_CODE <chr> "11", "11", "11", "11", "11", "11", "11", ~
$ HLTH_SERVICE_DLVR_AREA_ID <chr> "11 EK", "11 EK", "11 EK", "11 EK", "11 EK~
$ HLTH_AUTHORITY_CODE <chr> "1", "1", "1", "1", "1", "1", "1", "1", "1~
$ HLTH_AUTHORITY_NAME <chr> "Interior", "Interior", "Interior", "Inter~
$ HLTH_AUTHORITY_ID <chr> "1 IHA", "1 IHA", "1 IHA", "1 IHA", "1 IHA~
$ FEATURE_CODE <chr> "FH10000200", "FH10000200", "FH10000200", ~
$ FEATURE_AREA_SQM <dbl> 44984695870, 44984695870, 44984695870, 449~
$ FEATURE_LENGTH_M <dbl> 1721941, 1721941, 1721941, 1721941, 172194~
$ OBJECTID <int> 321, 321, 321, 321, 321, 321, 321, 321, 32~
$ SE_ANNO_CAD_DATA <chr> NA, NA, NA, NA, NA, NA, NA, NA, NA, NA~
$ geometry <POLYGON [m]> POLYGON ((1542406 861035.9,..., PO~
$ Dataset <chr> "raqdpsfw", "raqdpsfw", "raqdpsfw", "raqdp~

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Figure 1: Daily Smoke Exposure Levels (PM2.5) across BC

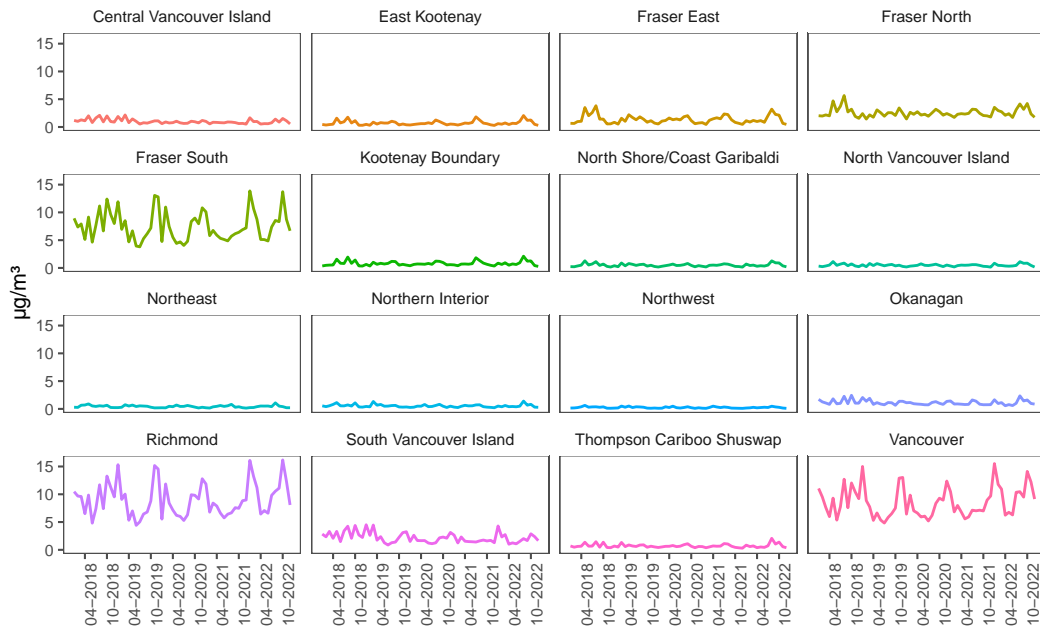


Figure 2: Daily Smoke Exposure Levels (PM2.5) across BC

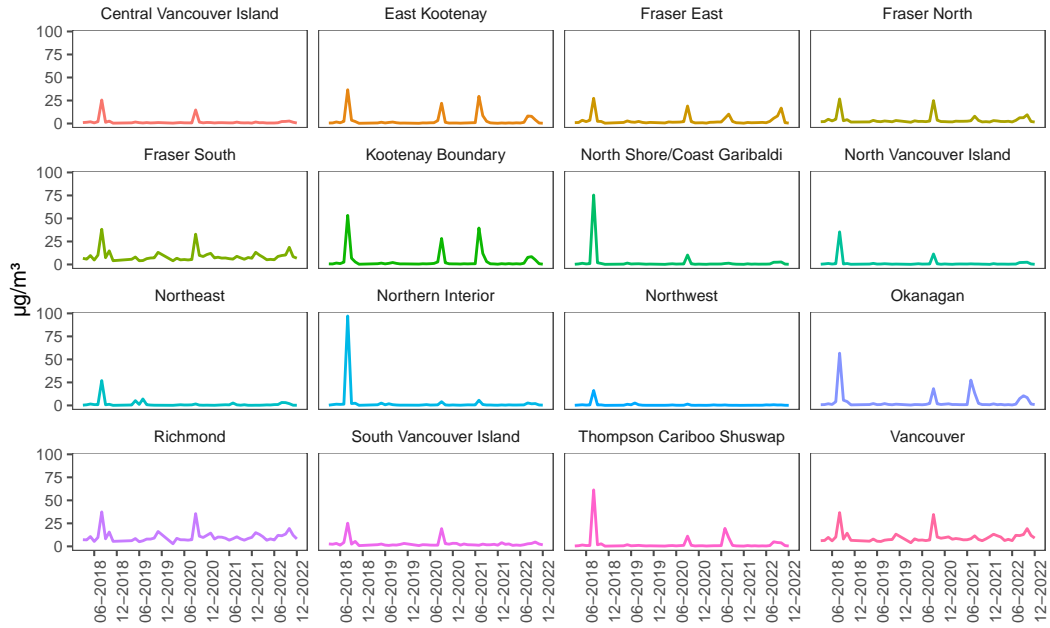


Figure 3: Daily Smoke Exposure Levels (PM2.5) across BC

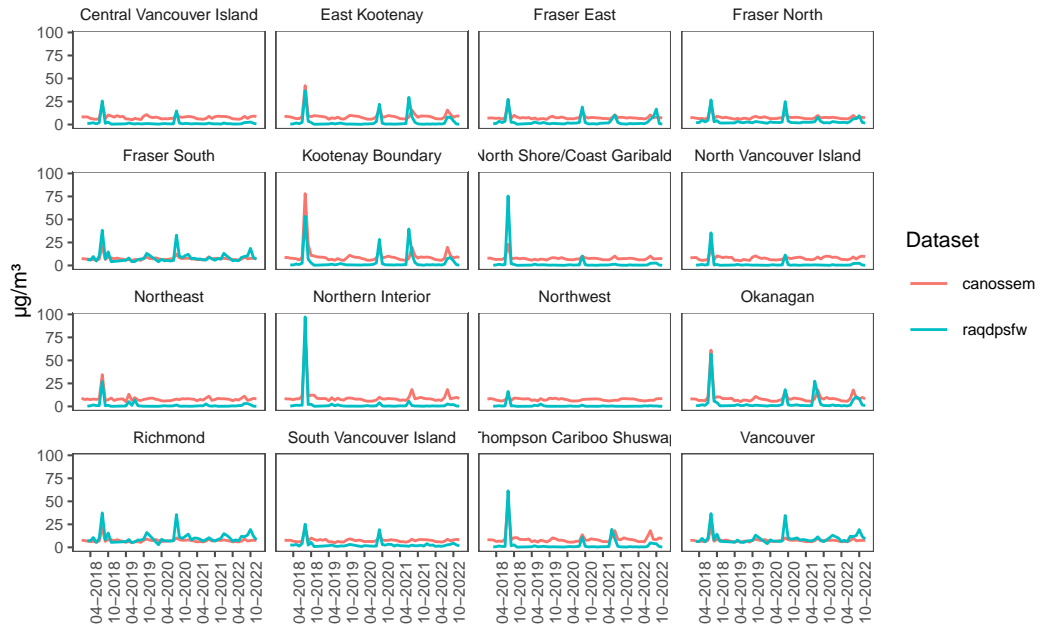


Figure 4: Daily Smoke Exposure Levels (PM2.5) across BC

Plot of average monthly PM2.5 values by HSDA (CanOSSEM vs. RAQDPS-FW)

Summary Statistics

	date	HLTH_SERVICE_DLVR_AREA_NAME	average_mo_canossem
1	2018-03-01	East Kootenay	8.287176
2	2018-04-01	East Kootenay	7.269358
3	2018-05-01	East Kootenay	6.492557
4	2018-06-01	East Kootenay	6.393615
5	2018-07-01	East Kootenay	8.787154
6	2018-08-01	East Kootenay	42.250838
7	2018-09-01	East Kootenay	9.315264
8	2018-10-01	East Kootenay	8.520188
9	2018-11-01	East Kootenay	9.628431
10	2019-04-01	East Kootenay	5.679160
11	2019-05-01	East Kootenay	7.245449
12	2019-06-01	East Kootenay	6.621089
13	2019-07-01	East Kootenay	8.007583
14	2019-08-01	East Kootenay	6.358658
15	2019-09-01	East Kootenay	5.781790
16	2019-10-01	East Kootenay	7.619649
17	2019-11-01	East Kootenay	9.861038
18	2020-03-01	East Kootenay	7.597851
19	2020-04-01	East Kootenay	6.824387
20	2020-05-01	East Kootenay	5.768858
21	2020-06-01	East Kootenay	5.780690
22	2020-07-01	East Kootenay	6.288768
23	2020-08-01	East Kootenay	8.638424
24	2020-09-01	East Kootenay	17.577804
25	2020-10-01	East Kootenay	7.831173
26	2020-11-01	East Kootenay	8.498896
27	2020-12-01	East Kootenay	9.710682
28	2021-01-01	East Kootenay	9.119943
29	2021-02-01	East Kootenay	8.735145
30	2021-03-01	East Kootenay	7.778014
31	2021-04-01	East Kootenay	6.431292
32	2021-05-01	East Kootenay	6.132230
33	2021-06-01	East Kootenay	6.081469
34	2021-07-01	East Kootenay	7.955803
35	2021-08-01	East Kootenay	15.723288

36	2021-09-01	East Kootenay	11.097092
37	2021-10-01	East Kootenay	7.833890
38	2021-11-01	East Kootenay	9.244260
39	2021-12-01	East Kootenay	9.217791
40	2022-01-01	East Kootenay	9.119943
41	2022-02-01	East Kootenay	8.735145
42	2022-03-01	East Kootenay	7.778014
43	2022-04-01	East Kootenay	6.431292
44	2022-05-01	East Kootenay	6.132230
45	2022-06-01	East Kootenay	6.081469
46	2022-07-01	East Kootenay	7.955803
47	2022-08-01	East Kootenay	15.723288
48	2022-09-01	East Kootenay	11.097092
49	2022-10-01	East Kootenay	7.833890
50	2022-11-01	East Kootenay	9.244260
51	2022-12-01	East Kootenay	9.217791
52	2018-03-01	Kootenay Boundary	7.903099
53	2018-04-01	Kootenay Boundary	7.731467
54	2018-05-01	Kootenay Boundary	7.240152
55	2018-06-01	Kootenay Boundary	5.988872
56	2018-07-01	Kootenay Boundary	8.754330
57	2018-08-01	Kootenay Boundary	78.020199
58	2018-09-01	Kootenay Boundary	22.831645
59	2018-10-01	Kootenay Boundary	10.861002
60	2018-11-01	Kootenay Boundary	10.271210
61	2019-04-01	Kootenay Boundary	6.029093
62	2019-05-01	Kootenay Boundary	6.803680
63	2019-06-01	Kootenay Boundary	5.581352
64	2019-07-01	Kootenay Boundary	7.512525
65	2019-08-01	Kootenay Boundary	6.107236
66	2019-09-01	Kootenay Boundary	5.460741
67	2019-10-01	Kootenay Boundary	8.132317
68	2019-11-01	Kootenay Boundary	11.134740
69	2020-03-01	Kootenay Boundary	7.698212
70	2020-04-01	Kootenay Boundary	6.891644
71	2020-05-01	Kootenay Boundary	5.657988
72	2020-06-01	Kootenay Boundary	5.707626
73	2020-07-01	Kootenay Boundary	6.276962
74	2020-08-01	Kootenay Boundary	7.800062
75	2020-09-01	Kootenay Boundary	15.835214
76	2020-10-01	Kootenay Boundary	8.213266
77	2020-11-01	Kootenay Boundary	9.017913
78	2020-12-01	Kootenay Boundary	10.144270

79	2021-01-01	Kootenay Boundary	9.133053
80	2021-02-01	Kootenay Boundary	8.739872
81	2021-03-01	Kootenay Boundary	7.697544
82	2021-04-01	Kootenay Boundary	6.404547
83	2021-05-01	Kootenay Boundary	5.999722
84	2021-06-01	Kootenay Boundary	5.539748
85	2021-07-01	Kootenay Boundary	7.553315
86	2021-08-01	Kootenay Boundary	19.793111
87	2021-09-01	Kootenay Boundary	10.659706
88	2021-10-01	Kootenay Boundary	8.026468
89	2021-11-01	Kootenay Boundary	9.291479
90	2021-12-01	Kootenay Boundary	8.825664
91	2022-01-01	Kootenay Boundary	9.133053
92	2022-02-01	Kootenay Boundary	8.739872
93	2022-03-01	Kootenay Boundary	7.697544
94	2022-04-01	Kootenay Boundary	6.404547
95	2022-05-01	Kootenay Boundary	5.999722
96	2022-06-01	Kootenay Boundary	5.539748
97	2022-07-01	Kootenay Boundary	7.553315
98	2022-08-01	Kootenay Boundary	19.793111
99	2022-09-01	Kootenay Boundary	10.659706
100	2022-10-01	Kootenay Boundary	8.026468
101	2022-11-01	Kootenay Boundary	9.291479
102	2022-12-01	Kootenay Boundary	8.825664
103	2018-03-01	Okanagan	7.787654
104	2018-04-01	Okanagan	6.324073
105	2018-05-01	Okanagan	6.628881
106	2018-06-01	Okanagan	5.904961
107	2018-07-01	Okanagan	10.070990
108	2018-08-01	Okanagan	61.098643
109	2018-09-01	Okanagan	8.784314
110	2018-10-01	Okanagan	10.522125
111	2018-11-01	Okanagan	10.132101
112	2019-04-01	Okanagan	6.086297
113	2019-05-01	Okanagan	6.696691
114	2019-06-01	Okanagan	5.135888
115	2019-07-01	Okanagan	6.950900
116	2019-08-01	Okanagan	6.750580
117	2019-09-01	Okanagan	5.692373
118	2019-10-01	Okanagan	7.352414
119	2019-11-01	Okanagan	10.815820
120	2020-03-01	Okanagan	7.053100
121	2020-04-01	Okanagan	5.829715

122	2020-05-01	Okanagan	5.603683
123	2020-06-01	Okanagan	5.617953
124	2020-07-01	Okanagan	6.556675
125	2020-08-01	Okanagan	7.636319
126	2020-09-01	Okanagan	16.574738
127	2020-10-01	Okanagan	7.844182
128	2020-11-01	Okanagan	7.908783
129	2020-12-01	Okanagan	9.130138
130	2021-01-01	Okanagan	8.557987
131	2021-02-01	Okanagan	8.157392
132	2021-03-01	Okanagan	7.342660
133	2021-04-01	Okanagan	5.994531
134	2021-05-01	Okanagan	5.842359
135	2021-06-01	Okanagan	5.516595
136	2021-07-01	Okanagan	8.360461
137	2021-08-01	Okanagan	17.937898
138	2021-09-01	Okanagan	9.054909
139	2021-10-01	Okanagan	7.952001
140	2021-11-01	Okanagan	9.772595
141	2021-12-01	Okanagan	8.237746
142	2022-01-01	Okanagan	8.557987
143	2022-02-01	Okanagan	8.157392
144	2022-03-01	Okanagan	7.342660
145	2022-04-01	Okanagan	5.994531
146	2022-05-01	Okanagan	5.842359
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152	2022-11-01	Okanagan	9.772595
153	2022-12-01	Okanagan	8.237746
154	2018-03-01	Thompson Cariboo Shuswap	7.989287
155	2018-04-01	Thompson Cariboo Shuswap	6.377767
156	2018-05-01	Thompson Cariboo Shuswap	6.741337
157	2018-06-01	Thompson Cariboo Shuswap	6.416998
158	2018-07-01	Thompson Cariboo Shuswap	9.038656
159	2018-08-01	Thompson Cariboo Shuswap	51.096449
160	2018-09-01	Thompson Cariboo Shuswap	8.440816
161	2018-10-01	Thompson Cariboo Shuswap	10.397514
162	2018-11-01	Thompson Cariboo Shuswap	10.549730
163	2019-04-01	Thompson Cariboo Shuswap	6.119382
164	2019-05-01	Thompson Cariboo Shuswap	7.300775

165	2019-06-01	Thompson Cariboo Shuswap	5.601084
166	2019-07-01	Thompson Cariboo Shuswap	7.786202
167	2019-08-01	Thompson Cariboo Shuswap	6.949935
168	2019-09-01	Thompson Cariboo Shuswap	5.882779
169	2019-10-01	Thompson Cariboo Shuswap	7.438117
170	2019-11-01	Thompson Cariboo Shuswap	10.303200
171	2020-03-01	Thompson Cariboo Shuswap	7.187984
172	2020-04-01	Thompson Cariboo Shuswap	5.918304
173	2020-05-01	Thompson Cariboo Shuswap	5.616833
174	2020-06-01	Thompson Cariboo Shuswap	5.738762
175	2020-07-01	Thompson Cariboo Shuswap	6.540531
176	2020-08-01	Thompson Cariboo Shuswap	6.594367
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178	2020-10-01	Thompson Cariboo Shuswap	7.876190
179	2020-11-01	Thompson Cariboo Shuswap	7.735632
180	2020-12-01	Thompson Cariboo Shuswap	9.343916
181	2021-01-01	Thompson Cariboo Shuswap	8.630800
182	2021-02-01	Thompson Cariboo Shuswap	8.294874
183	2021-03-01	Thompson Cariboo Shuswap	7.464514
184	2021-04-01	Thompson Cariboo Shuswap	6.152786
185	2021-05-01	Thompson Cariboo Shuswap	6.284033
186	2021-06-01	Thompson Cariboo Shuswap	5.948320
187	2021-07-01	Thompson Cariboo Shuswap	11.544372
188	2021-08-01	Thompson Cariboo Shuswap	18.122143
189	2021-09-01	Thompson Cariboo Shuswap	8.719463
190	2021-10-01	Thompson Cariboo Shuswap	8.231422
191	2021-11-01	Thompson Cariboo Shuswap	10.340974
192	2021-12-01	Thompson Cariboo Shuswap	9.241814
193	2022-01-01	Thompson Cariboo Shuswap	8.630800
194	2022-02-01	Thompson Cariboo Shuswap	8.294874
195	2022-03-01	Thompson Cariboo Shuswap	7.464514
196	2022-04-01	Thompson Cariboo Shuswap	6.152786
197	2022-05-01	Thompson Cariboo Shuswap	6.284033
198	2022-06-01	Thompson Cariboo Shuswap	5.948320
199	2022-07-01	Thompson Cariboo Shuswap	11.544372
200	2022-08-01	Thompson Cariboo Shuswap	18.122143
201	2022-09-01	Thompson Cariboo Shuswap	8.719463
202	2022-10-01	Thompson Cariboo Shuswap	8.231422
203	2022-11-01	Thompson Cariboo Shuswap	10.340974
204	2022-12-01	Thompson Cariboo Shuswap	9.241814
205	2018-03-01	Fraser East	7.017514
206	2018-04-01	Fraser East	6.691887
207	2018-05-01	Fraser East	6.973181

208	2018-06-01	Fraser East	5.820138
209	2018-07-01	Fraser East	7.446434
210	2018-08-01	Fraser East	24.396465
211	2018-09-01	Fraser East	6.704154
212	2018-10-01	Fraser East	9.984642
213	2018-11-01	Fraser East	8.073555
214	2019-04-01	Fraser East	6.065010
215	2019-05-01	Fraser East	7.142835
216	2019-06-01	Fraser East	5.484052
217	2019-07-01	Fraser East	6.344006
218	2019-08-01	Fraser East	6.416376
219	2019-09-01	Fraser East	5.577715
220	2019-10-01	Fraser East	7.939823
221	2019-11-01	Fraser East	9.067589
222	2020-03-01	Fraser East	7.274687
223	2020-04-01	Fraser East	6.171332
224	2020-05-01	Fraser East	6.331601
225	2020-06-01	Fraser East	6.168034
226	2020-07-01	Fraser East	6.920934
227	2020-08-01	Fraser East	7.235221
228	2020-09-01	Fraser East	13.660728
229	2020-10-01	Fraser East	8.335971
230	2020-11-01	Fraser East	7.100917
231	2020-12-01	Fraser East	7.659271
232	2021-01-01	Fraser East	7.559920
233	2021-02-01	Fraser East	7.160099
234	2021-03-01	Fraser East	7.114350
235	2021-04-01	Fraser East	6.526076
236	2021-05-01	Fraser East	6.613421
237	2021-06-01	Fraser East	6.038698
238	2021-07-01	Fraser East	7.113597
239	2021-08-01	Fraser East	10.451030
240	2021-09-01	Fraser East	7.568712
241	2021-10-01	Fraser East	7.893743
242	2021-11-01	Fraser East	7.691666
243	2021-12-01	Fraser East	7.009389
244	2022-01-01	Fraser East	7.559920
245	2022-02-01	Fraser East	7.160099
246	2022-03-01	Fraser East	7.114350
247	2022-04-01	Fraser East	6.526076
248	2022-05-01	Fraser East	6.613421
249	2022-06-01	Fraser East	6.038698
250	2022-07-01	Fraser East	7.113597

251	2022-08-01	Fraser East	10.451030
252	2022-09-01	Fraser East	7.568712
253	2022-10-01	Fraser East	7.893743
254	2022-11-01	Fraser East	7.691666
255	2022-12-01	Fraser East	7.009389
256	2018-03-01	Fraser North	6.865798
257	2018-04-01	Fraser North	6.443447
258	2018-05-01	Fraser North	6.636293
259	2018-06-01	Fraser North	5.935691
260	2018-07-01	Fraser North	7.357312
261	2018-08-01	Fraser North	22.173470
262	2018-09-01	Fraser North	6.551037
263	2018-10-01	Fraser North	8.938125
264	2018-11-01	Fraser North	8.147334
265	2019-04-01	Fraser North	5.826355
266	2019-05-01	Fraser North	6.703411
267	2019-06-01	Fraser North	5.705347
268	2019-07-01	Fraser North	6.855044
269	2019-08-01	Fraser North	6.648432
270	2019-09-01	Fraser North	5.544578
271	2019-10-01	Fraser North	7.797825
272	2019-11-01	Fraser North	8.922457
273	2020-03-01	Fraser North	7.465683
274	2020-04-01	Fraser North	6.386746
275	2020-05-01	Fraser North	6.451033
276	2020-06-01	Fraser North	6.465647
277	2020-07-01	Fraser North	7.136315
278	2020-08-01	Fraser North	7.210036
279	2020-09-01	Fraser North	11.594936
280	2020-10-01	Fraser North	8.278773
281	2020-11-01	Fraser North	7.590329
282	2020-12-01	Fraser North	7.785680
283	2021-01-01	Fraser North	7.885624
284	2021-02-01	Fraser North	7.386679
285	2021-03-01	Fraser North	6.979956
286	2021-04-01	Fraser North	6.281813
287	2021-05-01	Fraser North	6.390101
288	2021-06-01	Fraser North	6.085192
289	2021-07-01	Fraser North	7.269312
290	2021-08-01	Fraser North	9.797602
291	2021-09-01	Fraser North	7.171305
292	2021-10-01	Fraser North	7.608593
293	2021-11-01	Fraser North	7.742197

294	2021-12-01	Fraser North	7.474000
295	2022-01-01	Fraser North	7.885624
296	2022-02-01	Fraser North	7.386679
297	2022-03-01	Fraser North	6.979956
298	2022-04-01	Fraser North	6.281813
299	2022-05-01	Fraser North	6.390101
300	2022-06-01	Fraser North	6.085192
301	2022-07-01	Fraser North	7.269312
302	2022-08-01	Fraser North	9.797602
303	2022-09-01	Fraser North	7.171305
304	2022-10-01	Fraser North	7.608593
305	2022-11-01	Fraser North	7.742197
306	2022-12-01	Fraser North	7.474000
307	2018-03-01	Fraser South	6.882343
308	2018-04-01	Fraser South	6.615688
309	2018-05-01	Fraser South	6.455482
310	2018-06-01	Fraser South	5.753555
311	2018-07-01	Fraser South	6.787451
312	2018-08-01	Fraser South	21.763104
313	2018-09-01	Fraser South	6.499549
314	2018-10-01	Fraser South	9.251733
315	2018-11-01	Fraser South	8.271477
316	2019-04-01	Fraser South	5.943542
317	2019-05-01	Fraser South	6.525029
318	2019-06-01	Fraser South	5.454585
319	2019-07-01	Fraser South	6.435830
320	2019-08-01	Fraser South	6.394402
321	2019-09-01	Fraser South	5.490568
322	2019-10-01	Fraser South	8.062557
323	2019-11-01	Fraser South	9.085207
324	2020-03-01	Fraser South	7.414264
325	2020-04-01	Fraser South	6.306201
326	2020-05-01	Fraser South	6.600620
327	2020-06-01	Fraser South	6.550187
328	2020-07-01	Fraser South	7.107156
329	2020-08-01	Fraser South	7.313529
330	2020-09-01	Fraser South	12.539018
331	2020-10-01	Fraser South	8.315275
332	2020-11-01	Fraser South	7.485898
333	2020-12-01	Fraser South	7.755944
334	2021-01-01	Fraser South	7.891067
335	2021-02-01	Fraser South	7.293021
336	2021-03-01	Fraser South	6.950465

337	2021-04-01	Fraser South	6.351773
338	2021-05-01	Fraser South	6.376650
339	2021-06-01	Fraser South	6.002330
340	2021-07-01	Fraser South	6.834724
341	2021-08-01	Fraser South	9.438440
342	2021-09-01	Fraser South	7.158174
343	2021-10-01	Fraser South	7.761524
344	2021-11-01	Fraser South	7.804407
345	2021-12-01	Fraser South	7.370323
346	2022-01-01	Fraser South	7.891067
347	2022-02-01	Fraser South	7.293021
348	2022-03-01	Fraser South	6.950465
349	2022-04-01	Fraser South	6.351773
350	2022-05-01	Fraser South	6.376650
351	2022-06-01	Fraser South	6.002330
352	2022-07-01	Fraser South	6.834724
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355	2022-10-01	Fraser South	7.761524
356	2022-11-01	Fraser South	7.804407
357	2022-12-01	Fraser South	7.370323
358	2018-03-01	Richmond	6.771147
359	2018-04-01	Richmond	6.315031
360	2018-05-01	Richmond	6.483294
361	2018-06-01	Richmond	5.731224
362	2018-07-01	Richmond	6.854801
363	2018-08-01	Richmond	21.469550
364	2018-09-01	Richmond	6.530934
365	2018-10-01	Richmond	8.447627
366	2018-11-01	Richmond	8.039949
367	2019-04-01	Richmond	5.527789
368	2019-05-01	Richmond	6.402248
369	2019-06-01	Richmond	5.101491
370	2019-07-01	Richmond	6.065593
371	2019-08-01	Richmond	6.148500
372	2019-09-01	Richmond	5.350077
373	2019-10-01	Richmond	7.730824
374	2019-11-01	Richmond	9.089969
375	2020-03-01	Richmond	7.516366
376	2020-04-01	Richmond	6.321740
377	2020-05-01	Richmond	6.642998
378	2020-06-01	Richmond	6.660972
379	2020-07-01	Richmond	7.283690

380	2020-08-01	Richmond	7.204175
381	2020-09-01	Richmond	10.337515
382	2020-10-01	Richmond	8.358995
383	2020-11-01	Richmond	7.598610
384	2020-12-01	Richmond	7.774372
385	2021-01-01	Richmond	8.056029
386	2021-02-01	Richmond	7.470156
387	2021-03-01	Richmond	6.880208
388	2021-04-01	Richmond	6.007840
389	2021-05-01	Richmond	6.259326
390	2021-06-01	Richmond	5.936789
391	2021-07-01	Richmond	6.721729
392	2021-08-01	Richmond	9.044444
393	2021-09-01	Richmond	6.854621
394	2021-10-01	Richmond	7.398006
395	2021-11-01	Richmond	7.776495
396	2021-12-01	Richmond	7.519046
397	2022-01-01	Richmond	8.056029
398	2022-02-01	Richmond	7.470156
399	2022-03-01	Richmond	6.880208
400	2022-04-01	Richmond	6.007840
401	2022-05-01	Richmond	6.259326
402	2022-06-01	Richmond	5.936789
403	2022-07-01	Richmond	6.721729
404	2022-08-01	Richmond	9.044444
405	2022-09-01	Richmond	6.854621
406	2022-10-01	Richmond	7.398006
407	2022-11-01	Richmond	7.776495
408	2022-12-01	Richmond	7.519046
409	2018-03-01	Vancouver	6.824988
410	2018-04-01	Vancouver	6.428029
411	2018-05-01	Vancouver	6.635417
412	2018-06-01	Vancouver	6.137595
413	2018-07-01	Vancouver	7.699375
414	2018-08-01	Vancouver	22.098731
415	2018-09-01	Vancouver	6.752861
416	2018-10-01	Vancouver	8.530012
417	2018-11-01	Vancouver	8.011926
418	2019-04-01	Vancouver	5.674516
419	2019-05-01	Vancouver	6.836179
420	2019-06-01	Vancouver	5.693126
421	2019-07-01	Vancouver	6.652939
422	2019-08-01	Vancouver	6.783679

423	2019-09-01	Vancouver	5.657763
424	2019-10-01	Vancouver	7.620017
425	2019-11-01	Vancouver	8.804311
426	2020-03-01	Vancouver	7.481752
427	2020-04-01	Vancouver	6.369254
428	2020-05-01	Vancouver	6.454764
429	2020-06-01	Vancouver	6.423621
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431	2020-08-01	Vancouver	7.207164
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433	2020-10-01	Vancouver	8.353844
434	2020-11-01	Vancouver	7.650639
435	2020-12-01	Vancouver	7.692976
436	2021-01-01	Vancouver	7.892732
437	2021-02-01	Vancouver	7.459193
438	2021-03-01	Vancouver	6.898202
439	2021-04-01	Vancouver	6.086534
440	2021-05-01	Vancouver	6.335416
441	2021-06-01	Vancouver	6.095954
442	2021-07-01	Vancouver	7.307281
443	2021-08-01	Vancouver	9.867287
444	2021-09-01	Vancouver	7.078664
445	2021-10-01	Vancouver	7.459668
446	2021-11-01	Vancouver	7.641812
447	2021-12-01	Vancouver	7.487753
448	2022-01-01	Vancouver	7.892732
449	2022-02-01	Vancouver	7.459193
450	2022-03-01	Vancouver	6.898202
451	2022-04-01	Vancouver	6.086534
452	2022-05-01	Vancouver	6.335416
453	2022-06-01	Vancouver	6.095954
454	2022-07-01	Vancouver	7.307281
455	2022-08-01	Vancouver	9.867287
456	2022-09-01	Vancouver	7.078664
457	2022-10-01	Vancouver	7.459668
458	2022-11-01	Vancouver	7.641812
459	2022-12-01	Vancouver	7.487753
460	2018-03-01	North Shore/Coast Garibaldi	7.045400
461	2018-04-01	North Shore/Coast Garibaldi	6.446877
462	2018-05-01	North Shore/Coast Garibaldi	6.748842
463	2018-06-01	North Shore/Coast Garibaldi	6.571055
464	2018-07-01	North Shore/Coast Garibaldi	8.506596
465	2018-08-01	North Shore/Coast Garibaldi	22.901881

466	2018-09-01	North Shore/Coast	Garibaldi	6.985782
467	2018-10-01	North Shore/Coast	Garibaldi	7.833928
468	2018-11-01	North Shore/Coast	Garibaldi	8.009894
469	2019-04-01	North Shore/Coast	Garibaldi	5.717618
470	2019-05-01	North Shore/Coast	Garibaldi	6.727975
471	2019-06-01	North Shore/Coast	Garibaldi	5.957340
472	2019-07-01	North Shore/Coast	Garibaldi	6.940233
473	2019-08-01	North Shore/Coast	Garibaldi	6.608499
474	2019-09-01	North Shore/Coast	Garibaldi	5.861108
475	2019-10-01	North Shore/Coast	Garibaldi	7.496856
476	2019-11-01	North Shore/Coast	Garibaldi	8.476315
477	2020-03-01	North Shore/Coast	Garibaldi	7.431697
478	2020-04-01	North Shore/Coast	Garibaldi	6.431738
479	2020-05-01	North Shore/Coast	Garibaldi	6.237937
480	2020-06-01	North Shore/Coast	Garibaldi	6.138282
481	2020-07-01	North Shore/Coast	Garibaldi	7.041332
482	2020-08-01	North Shore/Coast	Garibaldi	6.875658
483	2020-09-01	North Shore/Coast	Garibaldi	10.041396
484	2020-10-01	North Shore/Coast	Garibaldi	8.268102
485	2020-11-01	North Shore/Coast	Garibaldi	7.676262
486	2020-12-01	North Shore/Coast	Garibaldi	7.698603
487	2021-01-01	North Shore/Coast	Garibaldi	7.875825
488	2021-02-01	North Shore/Coast	Garibaldi	7.607440
489	2021-03-01	North Shore/Coast	Garibaldi	6.960539
490	2021-04-01	North Shore/Coast	Garibaldi	6.161394
491	2021-05-01	North Shore/Coast	Garibaldi	6.215558
492	2021-06-01	North Shore/Coast	Garibaldi	6.052568
493	2021-07-01	North Shore/Coast	Garibaldi	7.730555
494	2021-08-01	North Shore/Coast	Garibaldi	10.179282
495	2021-09-01	North Shore/Coast	Garibaldi	7.115971
496	2021-10-01	North Shore/Coast	Garibaldi	7.281774
497	2021-11-01	North Shore/Coast	Garibaldi	7.494062
498	2021-12-01	North Shore/Coast	Garibaldi	7.451839
499	2022-01-01	North Shore/Coast	Garibaldi	7.875825
500	2022-02-01	North Shore/Coast	Garibaldi	7.607440
501	2022-03-01	North Shore/Coast	Garibaldi	6.960539
502	2022-04-01	North Shore/Coast	Garibaldi	6.161394
503	2022-05-01	North Shore/Coast	Garibaldi	6.215558
504	2022-06-01	North Shore/Coast	Garibaldi	6.052568
505	2022-07-01	North Shore/Coast	Garibaldi	7.730555
506	2022-08-01	North Shore/Coast	Garibaldi	10.179282
507	2022-09-01	North Shore/Coast	Garibaldi	7.115971
508	2022-10-01	North Shore/Coast	Garibaldi	7.281774

509	2022-11-01	North Shore/Coast	Garibaldi	7.494062
510	2022-12-01	North Shore/Coast	Garibaldi	7.451839
511	2018-03-01	South Vancouver	Island	7.731231
512	2018-04-01	South Vancouver	Island	6.700746
513	2018-05-01	South Vancouver	Island	6.236704
514	2018-06-01	South Vancouver	Island	5.819130
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516	2018-08-01	South Vancouver	Island	22.151166
517	2018-09-01	South Vancouver	Island	6.606658
518	2018-10-01	South Vancouver	Island	10.083583
519	2018-11-01	South Vancouver	Island	8.657235
520	2019-04-01	South Vancouver	Island	5.875296
521	2019-05-01	South Vancouver	Island	6.206542
522	2019-06-01	South Vancouver	Island	4.952591
523	2019-07-01	South Vancouver	Island	6.453318
524	2019-08-01	South Vancouver	Island	5.847007
525	2019-09-01	South Vancouver	Island	5.697021
526	2019-10-01	South Vancouver	Island	7.993918
527	2019-11-01	South Vancouver	Island	9.254947
528	2020-03-01	South Vancouver	Island	7.438829
529	2020-04-01	South Vancouver	Island	6.141044
530	2020-05-01	South Vancouver	Island	6.436465
531	2020-06-01	South Vancouver	Island	6.269934
532	2020-07-01	South Vancouver	Island	6.413145
533	2020-08-01	South Vancouver	Island	7.172200
534	2020-09-01	South Vancouver	Island	11.235487
535	2020-10-01	South Vancouver	Island	8.180993
536	2020-11-01	South Vancouver	Island	7.479964
537	2020-12-01	South Vancouver	Island	7.734989
538	2021-01-01	South Vancouver	Island	8.312090
539	2021-02-01	South Vancouver	Island	7.739062
540	2021-03-01	South Vancouver	Island	7.500772
541	2021-04-01	South Vancouver	Island	6.139888
542	2021-05-01	South Vancouver	Island	6.130178
543	2021-06-01	South Vancouver	Island	5.710712
544	2021-07-01	South Vancouver	Island	6.476899
545	2021-08-01	South Vancouver	Island	8.848739
546	2021-09-01	South Vancouver	Island	6.977657
547	2021-10-01	South Vancouver	Island	8.120433
548	2021-11-01	South Vancouver	Island	8.613525
549	2021-12-01	South Vancouver	Island	8.253637
550	2022-01-01	South Vancouver	Island	8.312090
551	2022-02-01	South Vancouver	Island	7.739062

552	2022-03-01	South Vancouver Island	7.500772
553	2022-04-01	South Vancouver Island	6.139888
554	2022-05-01	South Vancouver Island	6.130178
555	2022-06-01	South Vancouver Island	5.710712
556	2022-07-01	South Vancouver Island	6.476899
557	2022-08-01	South Vancouver Island	8.848739
558	2022-09-01	South Vancouver Island	6.977657
559	2022-10-01	South Vancouver Island	8.120433
560	2022-11-01	South Vancouver Island	8.613525
561	2022-12-01	South Vancouver Island	8.253637
562	2018-03-01	Central Vancouver Island	8.282662
563	2018-04-01	Central Vancouver Island	6.624560
564	2018-05-01	Central Vancouver Island	6.010700
565	2018-06-01	Central Vancouver Island	5.631960
566	2018-07-01	Central Vancouver Island	6.481657
567	2018-08-01	Central Vancouver Island	22.082655
568	2018-09-01	Central Vancouver Island	6.513754
569	2018-10-01	Central Vancouver Island	10.389570
570	2018-11-01	Central Vancouver Island	9.268366
571	2019-04-01	Central Vancouver Island	6.055009
572	2019-05-01	Central Vancouver Island	5.962290
573	2019-06-01	Central Vancouver Island	5.061668
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576	2019-09-01	Central Vancouver Island	5.377583
577	2019-10-01	Central Vancouver Island	9.158716
578	2019-11-01	Central Vancouver Island	10.807544
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580	2020-04-01	Central Vancouver Island	6.077713
581	2020-05-01	Central Vancouver Island	6.288027
582	2020-06-01	Central Vancouver Island	6.203561
583	2020-07-01	Central Vancouver Island	6.630936
584	2020-08-01	Central Vancouver Island	6.767112
585	2020-09-01	Central Vancouver Island	10.950273
586	2020-10-01	Central Vancouver Island	8.271104
587	2020-11-01	Central Vancouver Island	7.828537
588	2020-12-01	Central Vancouver Island	8.311665
589	2021-01-01	Central Vancouver Island	8.751712
590	2021-02-01	Central Vancouver Island	8.501975
591	2021-03-01	Central Vancouver Island	7.700638
592	2021-04-01	Central Vancouver Island	6.211899
593	2021-05-01	Central Vancouver Island	6.017897
594	2021-06-01	Central Vancouver Island	5.673205

595	2021-07-01	Central Vancouver Island	6.530317
596	2021-08-01	Central Vancouver Island	8.920699
597	2021-09-01	Central Vancouver Island	6.652428
598	2021-10-01	Central Vancouver Island	8.521051
599	2021-11-01	Central Vancouver Island	9.153952
600	2021-12-01	Central Vancouver Island	8.758493
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603	2022-03-01	Central Vancouver Island	7.700638
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605	2022-05-01	Central Vancouver Island	6.017897
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610	2022-10-01	Central Vancouver Island	8.521051
611	2022-11-01	Central Vancouver Island	9.153952
612	2022-12-01	Central Vancouver Island	8.758493
613	2018-03-01	North Vancouver Island	8.662800
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618	2018-08-01	North Vancouver Island	19.469134
619	2018-09-01	North Vancouver Island	6.437980
620	2018-10-01	North Vancouver Island	10.427928
621	2018-11-01	North Vancouver Island	9.497665
622	2019-04-01	North Vancouver Island	5.537161
623	2019-05-01	North Vancouver Island	5.766129
624	2019-06-01	North Vancouver Island	4.997009
625	2019-07-01	North Vancouver Island	6.539854
626	2019-08-01	North Vancouver Island	5.959083
627	2019-09-01	North Vancouver Island	5.440458
628	2019-10-01	North Vancouver Island	9.091108
629	2019-11-01	North Vancouver Island	10.414029
630	2020-03-01	North Vancouver Island	7.467031
631	2020-04-01	North Vancouver Island	6.153997
632	2020-05-01	North Vancouver Island	6.062545
633	2020-06-01	North Vancouver Island	5.935574
634	2020-07-01	North Vancouver Island	6.307058
635	2020-08-01	North Vancouver Island	6.459325
636	2020-09-01	North Vancouver Island	9.420355
637	2020-10-01	North Vancouver Island	8.214975

638	2020-11-01	North Vancouver Island	7.460166
639	2020-12-01	North Vancouver Island	8.272295
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641	2021-02-01	North Vancouver Island	9.099084
642	2021-03-01	North Vancouver Island	8.161266
643	2021-04-01	North Vancouver Island	6.570926
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645	2021-06-01	North Vancouver Island	6.146768
646	2021-07-01	North Vancouver Island	6.999790
647	2021-08-01	North Vancouver Island	9.215666
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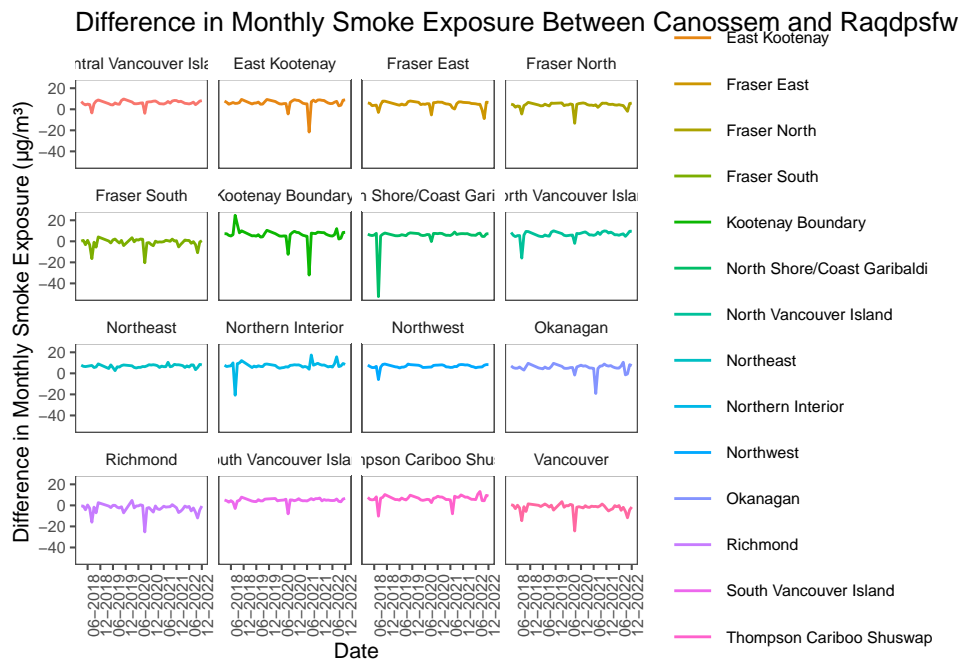
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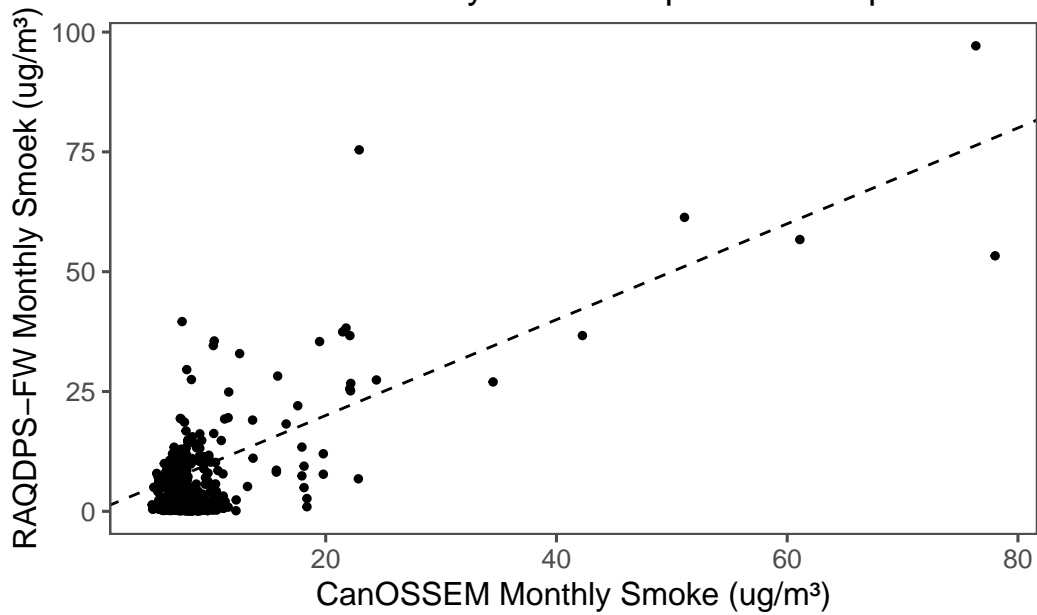
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769	0.88071350	6.776830687
770	0.84399168	7.117476410
771	26.99937473	7.508774644
772	0.73038747	5.536672531
773	1.21988100	6.084958298
774	0.08284775	8.992919831
775	0.49885718	4.576990893
776	5.17634717	8.045478408
777	1.06150017	5.386858124
778	7.02129148	2.558397898
779	0.76205682	6.209037908
780	0.39729329	5.968818564
781	0.21852025	7.332201907
782	0.18905740	7.964578976
783	0.11664358	7.139903597
784	0.43700454	5.600623489
785	0.72798332	5.112181547
786	0.46730022	5.670671444
787	0.48401741	5.672154956
788	0.62927431	6.451273137
789	1.57597575	6.326325589
790	0.34690550	7.069406402
791	0.18823731	8.185990611
792	0.27716721	7.894685299
793	0.19309423	8.179057216
794	0.14607319	7.848395491
795	0.33960865	7.310270442
796	0.55452748	5.568549744
797	0.70975260	6.885639427
798	0.59458875	6.303293468
799	2.67154770	6.346655540
800	0.63092913	10.487268794
801	0.25304105	6.251140250
802	0.71079682	6.744213248
803	0.17451198	8.576218339
804	0.13307560	8.102504453
805	0.22417940	8.147972046
806	0.20651299	7.787955692
807	0.35020191	7.299677181
808	0.56133586	5.561741362
809	0.49426241	7.101129613

810	0.87875591	6.019126312
811	0.95166887	8.066534370
812	3.18975910	7.928438830
813	3.02391079	3.480270508
814	1.93447618	5.520533892
815	0.23045573	8.520274587
816	0.20587098	8.029709076



Scatter Plot of Monthly Smoke Exposure Comparison – C



Scatter Plot of Monthly Smoke Exposure Comparison by

