Appendix 6B3 – Sacramento – San Joaquin Delta Modeling, X2 Results (DSM2-QUAL)

The following results of the DSM2 QUAL model are included for X2 results at key project locations for the following alternatives:

- No Action Alternative 051422
- Alternative 1A 051722
- Alternative 1B 051722
- Alternative 2 051722
- Alternative 3 051722

Section	Output Parameters	Table Numbers	Figure Numbers
X2	X2 Distance	6B3-1-1a to 6B3-1-4c	6B3-1-1 to 6B3-1-18

Report formats

- Monthly tables comparing an alternative against the No Action alternative (exceedance values, long-term average, and average by water year type)
- Monthly pattern charts (long-term average and average by water year type) including all alternatives
- Monthly exceedance charts (all months) including all alternatives

Table 6B3-1-1a. X2, No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	92	91	86	79	79	80	82	84	88	91	93
20% Exceedance	92	91	89	84	73	72	73	80	83	86	90	92
30% Exceedance	92	91	87	82	68	65	68	78	82	85	90	92
40% Exceedance	91	89	85	75	64	63	67	71	80	83	87	91
50% Exceedance	90	85	84	71	60	60	64	68	78	81	86	89
60% Exceedance	81	84	81	65	56	57	61	65	75	80	84	80
70% Exceedance	80	83	70	57	54	54	58	63	72	78	83	80
80% Exceedance	78	82	64	54	54	54	54	58	67	77	83	79
90% Exceedance	77	74	57	54	54	54	54	54	58	72	81	78
Full Simulation Period Average[a]	85	85	78	70	63	63	65	69	75	80	86	85
Wet Water Years (32%)	78	79	75	58	55	55	57	59	65	74	81	78
Above Normal (15%)	80	82	77	65	58	56	59	63	72	78	83	80
Below Normal (17%)	90	85	76	73	62	63	65	69	77	82	86	90
Dry Water Years (22%)	92	89	79	79	70	68	71	76	82	85	90	92
Critical Water (15%)	93	92	88	84	77	77	79	84	87	90	91	93

Table 6B3-1-1b. X2, Alternative 1A 051722, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	92.3	91.7	90.7	86.2	78.4	78.9	80.0	82.0	83.8	87.5	90.3	91.7
20% Exceedance	91.7	90.8	89.0	84.1	73.5	71.9	72.6	80.0	83.1	85.2	89.1	91.1
30% Exceedance	91.2	90.3	86.7	81.9	68.2	65.6	68.6	78.1	82.0	84.3	88.7	90.9
40% Exceedance	91.0	89.2	85.3	75.0	64.6	63.7	66.8	71.5	79.8	82.6	86.8	90.5
50% Exceedance	89.6	85.2	83.6	71.7	59.7	60.4	64.3	67.7	77.5	81.2	85.7	88.5
60% Exceedance	80.0	83.9	81.3	65.5	55.6	57.5	60.8	65.1	75.4	79.5	83.4	79.7
70% Exceedance	79.5	82.9	71.7	56.9	54.2	54.5	58.0	62.8	71.7	78.5	82.8	79.1
80% Exceedance	77.8	82.1	65.4	54.6	54.0	54.0	54.2	58.1	66.7	76.7	82.3	78.8
90% Exceedance	76.8	74.6	56.6	54.0	54.0	54.0	54.0	54.1	58.2	72.5	81.1	77.7
Full Simulation Period Average[a]	85.0	84.6	78.4	70.0	63.3	62.8	64.9	69.0	75.2	80.3	85.1	84.9
Wet Water Years (32%)	77.4	79.0	75.2	57.8	54.8	55.5	56.8	59.4	65.4	73.6	80.6	77.3
Above Normal (15%)	79.8	82.1	77.3	65.1	57.8	55.9	58.9	63.2	72.4	78.0	82.6	79.2
Below Normal (17%)	89.2	85.3	76.3	73.0	62.0	63.3	65.1	69.3	77.1	81.5	86.0	89.7
Dry Water Years (22%)	91.4	88.7	79.0	79.3	70.5	67.9	70.7	76.4	81.8	84.8	88.9	91.0
Critical Water (15%)	92.3	92.1	87.8	84.0	77.5	77.1	79.1	84.0	87.0	89.2	90.8	92.2

Table 6B3-1-1c. X2, Alternative 1A 051722 minus No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.6	-0.2	-0.3	0.4	-0.1	0.0	0.1	0.0	0.0	-0.1	-1.0	-0.9
20% Exceedance	-0.6	-0.6	0.0	-0.1	0.5	0.0	0.0	0.0	0.0	-0.5	-0.8	-0.9
30% Exceedance	-0.8	-0.6	0.0	-0.4	0.3	0.6	0.2	0.1	0.0	-0.4	-0.8	-0.7
40% Exceedance	-0.5	0.2	0.0	0.4	0.5	0.5	0.1	0.0	0.0	0.0	0.0	-0.7
50% Exceedance	-0.8	-0.2	-0.1	0.8	0.2	0.3	0.0	0.0	0.0	0.0	0.0	-0.5
60% Exceedance	-0.5	0.0	0.4	0.5	0.1	0.1	0.2	0.1	0.0	0.0	-0.2	-0.5
70% Exceedance	-0.5	-0.1	1.5	0.3	0.1	0.2	0.0	0.1	0.0	0.0	-0.3	-0.6
80% Exceedance	-0.5	-0.1	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.7
90% Exceedance	-0.5	0.9	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.6
Full Simulation Period Average[a]	-0.4	0.0	0.2	0.2	0.2	0.2	0.1	0.0	0.0	-0.1	-0.4	-0.6
Wet Water Years	-0.3	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.5
Above Normal	-0.4	-0.1	0.3	0.4	0.2	0.2	0.0	-0.1	0.0	0.0	-0.3	-0.5
Below Normal	-0.4	0.3	0.5	0.0	0.1	0.2	0.1	0.0	0.0	0.0	-0.2	-0.4
Dry Water Years	-0.8	-0.4	0.0	0.2	0.3	0.3	0.1	-0.1	0.0	-0.3	-0.8	-0.7
Critical Water	-0.3	-0.1	0.0	0.2	0.1	0.2	0.1	-0.1	-0.1	-0.3	-0.7	-0.7

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 cm sea level rise.

* As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

* These results are displayed with calendar year - year type sorting.

Table 6B3-1-2a. X2, No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	92	91	86	79	79	80	82	84	88	91	93
20% Exceedance	92	91	89	84	73	72	73	80	83	86	90	92
30% Exceedance	92	91	87	82	68	65	68	78	82	85	90	92
40% Exceedance	91	89	85	75	64	63	67	71	80	83	87	91
50% Exceedance	90	85	84	71	60	60	64	68	78	81	86	89
60% Exceedance	81	84	81	65	56	57	61	65	75	80	84	80
70% Exceedance	80	83	70	57	54	54	58	63	72	78	83	80
80% Exceedance	78	82	64	54	54	54	54	58	67	77	83	79
90% Exceedance	77	74	57	54	54	54	54	54	58	72	81	78
Full Simulation Period Average[a]	85	85	78	70	63	63	65	69	75	80	86	85
Wet Water Years (32%)	78	79	75	58	55	55	57	59	65	74	81	78
Above Normal (15%)	80	82	77	65	58	56	59	63	72	78	83	80
Below Normal (17%)	90	85	76	73	62	63	65	69	77	82	86	90
Dry Water Years (22%)	92	89	79	79	70	68	71	76	82	85	90	92
Critical Water (15%)	93	92	88	84	77	77	79	84	87	90	91	93

Table 6B3-1-2b. X2, Alternative 1B 051722, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	92.4	91.7	90.7	86.2	78.4	78.9	80.1	82.0	83.8	87.5	90.3	91.7
20% Exceedance	91.7	91.0	89.0	84.1	73.6	71.9	72.7	80.0	83.1	85.2	89.3	91.2
30% Exceedance	91.2	90.4	86.8	81.9	68.2	65.7	68.6	77.7	82.0	84.3	88.7	90.9
40% Exceedance	90.9	89.3	85.2	75.0	64.6	63.7	66.8	71.6	79.6	82.6	86.8	90.5
50% Exceedance	89.7	84.9	83.6	71.7	59.7	60.4	64.2	67.7	77.6	81.2	85.7	88.6
60% Exceedance	80.0	83.9	81.1	65.8	55.6	57.6	60.8	65.0	75.4	79.4	83.4	79.7
70% Exceedance	79.4	82.9	71.6	56.9	54.2	54.5	58.0	62.4	71.7	78.5	82.8	79.2
80% Exceedance	77.5	82.1	65.1	54.7	54.0	54.0	54.2	58.1	66.7	76.7	82.3	78.9
90% Exceedance	76.8	75.8	56.6	54.0	54.0	54.0	54.0	54.1	58.2	72.5	81.1	77.2
Full Simulation Period Average[a]	85.0	84.6	78.3	70.0	63.3	62.8	64.9	68.9	75.2	80.3	85.1	84.9
Wet Water Years (32%)	77.4	79.1	75.2	57.8	54.8	55.5	56.8	59.3	65.4	73.6	80.6	77.4
Above Normal (15%)	79.7	82.1	77.2	65.1	57.8	56.0	59.0	63.2	72.5	78.0	82.6	79.1
Below Normal (17%)	89.2	85.2	76.2	73.3	62.1	63.3	65.1	69.3	77.1	81.5	86.0	89.7
Dry Water Years (22%)	91.4	88.8	79.0	79.1	70.5	67.9	70.8	76.5	81.8	84.8	88.9	91.0
Critical Water (15%)	92.4	92.1	87.7	84.0	77.5	77.1	79.1	84.0	87.0	89.2	90.8	92.2

Table 6B3-1-2c. X2, Alternative 1B 051722 minus No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.5	-0.2	-0.3	0.4	-0.1	0.0	0.2	0.0	0.0	-0.1	-1.0	-0.9
20% Exceedance	-0.6	-0.4	0.0	-0.1	0.6	0.0	0.1	0.0	0.0	-0.5	-0.6	-0.8
30% Exceedance	-0.8	-0.5	0.0	-0.3	0.3	0.8	0.2	-0.3	0.0	-0.4	-0.8	-0.7
40% Exceedance	-0.5	0.3	0.0	0.4	0.5	0.5	0.1	0.2	-0.2	0.0	0.0	-0.7
50% Exceedance	-0.6	-0.5	-0.1	0.8	0.2	0.3	0.0	0.0	0.0	0.0	0.0	-0.4
60% Exceedance	-0.5	0.0	0.2	0.7	0.1	0.2	0.2	0.0	0.0	-0.1	-0.2	-0.5
70% Exceedance	-0.5	-0.1	1.4	0.3	0.1	0.2	0.0	-0.3	0.0	0.0	-0.3	-0.5
80% Exceedance	-0.7	-0.1	1.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.5
90% Exceedance	-0.4	2.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-1.2
Full Simulation Period Average[a]	-0.5	0.0	0.2	0.2	0.1	0.2	0.1	0.0	0.0	-0.1	-0.4	-0.6
Wet Water Years	-0.3	0.2	0.3	0.2	0.0	0.0	0.0	-0.1	0.0	0.0	-0.3	-0.5
Above Normal	-0.6	-0.2	0.2	0.4	0.2	0.2	0.0	-0.1	0.0	0.0	-0.3	-0.6
Below Normal	-0.4	0.3	0.5	0.3	0.2	0.2	0.1	0.0	0.0	0.0	-0.2	-0.4
Dry Water Years	-0.9	-0.3	0.0	0.0	0.3	0.4	0.1	0.0	0.0	-0.3	-0.7	-0.8
Critical Water	-0.2	0.0	0.0	0.2	0.1	0.2	0.1	0.0	0.0	-0.3	-0.6	-0.7

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* These results are displayed with calendar year - year type sorting.

Table 6B3-1-3a. X2, No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	92	91	86	79	79	80	82	84	88	91	93
20% Exceedance	92	91	89	84	73	72	73	80	83	86	90	92
30% Exceedance	92	91	87	82	68	65	68	78	82	85	90	92
40% Exceedance	91	89	85	75	64	63	67	71	80	83	87	91
50% Exceedance	90	85	84	71	60	60	64	68	78	81	86	89
60% Exceedance	81	84	81	65	56	57	61	65	75	80	84	80
70% Exceedance	80	83	70	57	54	54	58	63	72	78	83	80
80% Exceedance	78	82	64	54	54	54	54	58	67	77	83	79
90% Exceedance	77	74	57	54	54	54	54	54	58	72	81	78
Full Simulation Period Average[a]	85	85	78	70	63	63	65	69	75	80	86	85
Wet Water Years (32%)	78	79	75	58	55	55	57	59	65	74	81	78
Above Normal (15%)	80	82	77	65	58	56	59	63	72	78	83	80
Below Normal (17%)	90	85	76	73	62	63	65	69	77	82	86	90
Dry Water Years (22%)	92	89	79	79	70	68	71	76	82	85	90	92
Critical Water (15%)	93	92	88	84	77	77	79	84	87	90	91	93

Table 6B3-1-3b. X2, Alternative 2 051722, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	92.1	91.7	90.7	86.1	78.4	78.9	80.0	82.0	83.8	87.5	90.3	91.8
20% Exceedance	91.7	90.8	89.0	84.1	73.5	71.9	72.6	80.0	83.1	85.3	89.1	91.1
30% Exceedance	91.2	90.3	86.7	81.9	68.2	65.6	68.6	78.1	82.0	84.3	88.7	90.9
40% Exceedance	91.0	89.2	85.2	75.0	64.6	63.7	66.8	71.5	79.8	82.6	86.7	90.5
50% Exceedance	89.5	85.2	83.6	71.7	59.7	60.4	64.3	67.7	77.5	81.2	85.7	88.5
60% Exceedance	80.0	83.9	81.3	65.6	55.6	57.5	60.8	65.1	75.4	79.5	83.3	79.7
70% Exceedance	79.4	82.9	71.7	56.9	54.2	54.5	58.0	62.8	71.7	78.5	82.8	79.1
80% Exceedance	77.7	82.1	65.4	54.6	54.0	54.0	54.2	58.1	66.7	76.7	82.3	78.9
90% Exceedance	76.8	74.6	56.6	54.0	54.0	54.0	54.0	54.1	58.2	72.5	81.1	77.7
Full Simulation Period Average[a]	85.0	84.6	78.4	70.0	63.3	62.8	64.9	69.0	75.2	80.3	85.1	84.9
Wet Water Years (32%)	77.4	79.0	75.2	57.8	54.8	55.5	56.8	59.4	65.4	73.6	80.6	77.3
Above Normal (15%)	79.8	82.1	77.3	65.1	57.8	55.9	58.9	63.2	72.4	78.0	82.6	79.2
Below Normal (17%)	89.2	85.3	76.3	73.0	62.0	63.3	65.1	69.3	77.1	81.5	86.0	89.7
Dry Water Years (22%)	91.4	88.7	79.0	79.3	70.5	67.9	70.7	76.4	81.8	84.8	88.9	91.1
Critical Water (15%)	92.3	92.1	87.7	84.0	77.5	77.1	79.1	84.0	87.0	89.2	90.7	92.1

Table 6B3-1-3c. X2, Alternative 2 051722 minus No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.8	-0.2	-0.3	0.2	-0.1	0.0	0.1	0.1	0.0	-0.1	-1.0	-0.8
20% Exceedance	-0.6	-0.7	0.0	-0.1	0.5	0.0	0.0	0.0	0.0	-0.5	-0.8	-0.9
30% Exceedance	-0.8	-0.6	0.0	-0.4	0.3	0.6	0.2	0.1	0.0	-0.4	-0.9	-0.7
40% Exceedance	-0.5	0.2	0.0	0.4	0.5	0.5	0.1	0.0	0.0	0.0	0.0	-0.7
50% Exceedance	-0.8	-0.2	-0.1	0.8	0.2	0.3	0.0	0.0	0.0	0.0	0.0	-0.5
60% Exceedance	-0.5	0.0	0.4	0.5	0.1	0.1	0.2	0.1	0.0	0.0	-0.2	-0.5
70% Exceedance	-0.6	-0.1	1.5	0.3	0.1	0.2	0.0	0.1	0.0	0.0	-0.3	-0.6
80% Exceedance	-0.5	-0.1	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.6
90% Exceedance	-0.5	0.9	-0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.6
Full Simulation Period Average[a]	-0.5	0.0	0.2	0.2	0.1	0.2	0.1	0.0	0.0	-0.1	-0.5	-0.6
Wet Water Years	-0.3	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.5
Above Normal	-0.5	-0.2	0.3	0.4	0.2	0.2	0.0	-0.1	0.0	0.0	-0.3	-0.5
Below Normal	-0.4	0.3	0.5	0.0	0.1	0.2	0.1	0.0	0.0	0.0	-0.2	-0.4
Dry Water Years	-0.8	-0.4	0.1	0.2	0.3	0.3	0.1	-0.1	0.0	-0.3	-0.8	-0.7
Critical Water	-0.3	-0.1	0.0	0.2	0.1	0.2	0.1	-0.1	-0.1	-0.3	-0.7	-0.7

[a] Based on the 82-year simulation period.

* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* These results are displayed with calendar year - year type sorting.

Table 6B3-1-4a. X2, No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	92	91	86	79	79	80	82	84	88	91	93
20% Exceedance	92	91	89	84	73	72	73	80	83	86	90	92
30% Exceedance	92	91	87	82	68	65	68	78	82	85	90	92
40% Exceedance	91	89	85	75	64	63	67	71	80	83	87	91
50% Exceedance	90	85	84	71	60	60	64	68	78	81	86	89
60% Exceedance	81	84	81	65	56	57	61	65	75	80	84	80
70% Exceedance	80	83	70	57	54	54	58	63	72	78	83	80
80% Exceedance	78	82	64	54	54	54	54	58	67	77	83	79
90% Exceedance	77	74	57	54	54	54	54	54	58	72	81	78
Full Simulation Period Average[a]	85	85	78	70	63	63	65	69	75	80	86	85
Wet Water Years (32%)	78	79	75	58	55	55	57	59	65	74	81	78
Above Normal (15%)	80	82	77	65	58	56	59	63	72	78	83	80
Below Normal (17%)	90	85	76	73	62	63	65	69	77	82	86	90
Dry Water Years (22%)	92	89	79	79	70	68	71	76	82	85	90	92
Critical Water (15%)	93	92	88	84	77	77	79	84	87	90	91	93

Table 6B3-1-4b. X2, Alternative 3 051722, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	92.4	91.9	90.7	86.1	78.5	78.9	80.1	82.0	83.8	87.5	90.6	92.1
20% Exceedance	91.8	91.0	89.0	84.1	73.6	72.0	72.7	80.0	83.1	85.3	89.4	91.4
30% Exceedance	91.3	90.3	86.7	81.9	68.3	65.6	68.6	77.8	82.0	84.4	88.8	91.0
40% Exceedance	90.9	88.8	85.7	75.0	64.6	63.9	67.2	71.7	79.8	82.5	86.7	90.7
50% Exceedance	87.1	84.8	83.7	71.7	59.8	60.5	64.3	67.6	77.5	81.2	85.8	88.5
60% Exceedance	80.1	83.4	80.8	65.7	55.6	58.0	60.6	65.0	75.4	79.4	83.4	79.9
70% Exceedance	79.4	82.9	71.3	56.9	54.2	54.5	58.1	62.8	71.7	78.5	82.8	79.1
80% Exceedance	78.0	81.1	64.2	54.6	54.0	54.0	54.2	58.1	66.7	76.7	82.3	78.9
90% Exceedance	77.1	74.9	56.3	54.0	54.0	54.0	54.0	54.1	58.2	72.5	81.1	77.0
Full Simulation Period Average[a]	84.9	84.3	78.2	70.0	63.3	62.8	64.9	68.9	75.2	80.3	85.2	85.0
Wet Water Years (32%)	77.5	79.1	75.2	57.7	54.8	55.5	56.8	59.3	65.4	73.6	80.6	77.4
Above Normal (15%)	79.6	81.7	77.0	65.1	57.8	56.0	59.0	63.1	72.5	78.0	82.6	79.1
Below Normal (17%)	88.2	83.5	75.8	73.1	62.1	63.5	65.2	69.2	77.1	81.5	86.0	89.7
Dry Water Years (22%)	91.6	88.9	78.8	79.3	70.5	67.9	70.7	76.5	81.8	84.8	89.0	91.1
Critical Water (15%)	92.5	92.1	87.6	84.0	77.5	77.1	79.1	84.0	87.1	89.2	90.9	92.5

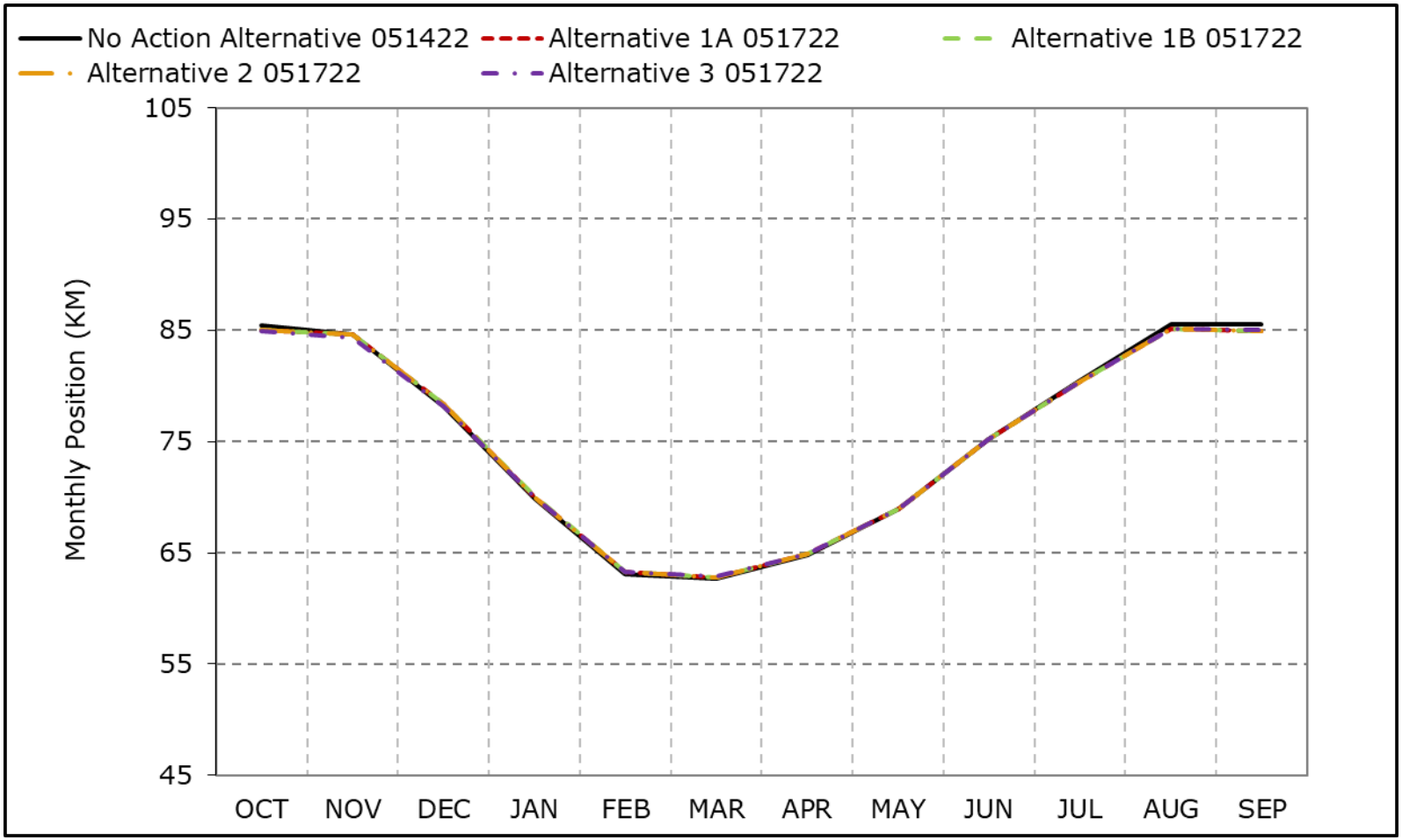
Table 6B3-1-4c. X2, Alternative 3 051722 minus No Action Alternative 051422, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-0.5	0.0	-0.3	0.3	0.0	0.0	0.2	0.0	0.0	-0.1	-0.8	-0.5
20% Exceedance	-0.4	-0.5	0.0	-0.1	0.6	0.1	0.1	0.0	0.0	-0.5	-0.5	-0.6
30% Exceedance	-0.7	-0.6	0.0	-0.4	0.4	0.6	0.2	-0.3	0.0	-0.3	-0.7	-0.5
40% Exceedance	-0.6	-0.3	0.5	0.4	0.5	0.7	0.5	0.2	0.0	-0.1	-0.1	-0.5
50% Exceedance	-3.2	-0.6	0.0	0.8	0.3	0.3	0.0	0.0	0.0	0.0	0.1	-0.5
60% Exceedance	-0.4	-0.5	0.0	0.6	0.1	0.5	0.0	0.0	0.0	-0.1	-0.2	-0.4
70% Exceedance	-0.6	-0.2	1.2	0.3	0.1	0.2	0.0	0.1	0.0	0.0	-0.3	-0.6
80% Exceedance	-0.3	-1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-0.5
90% Exceedance	-0.2	1.2	-0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.3	-1.3
Full Simulation Period Average[a]	-0.6	-0.3	0.0	0.2	0.2	0.2	0.1	0.0	0.0	-0.1	-0.4	-0.5
Wet Water Years	-0.2	0.2	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	-0.3	-0.4
Above Normal	-0.6	-0.6	-0.1	0.4	0.3	0.2	0.1	-0.2	0.0	0.0	-0.3	-0.6
Below Normal	-1.4	-1.5	0.0	0.1	0.3	0.4	0.1	0.0	0.1	0.0	-0.2	-0.4
Dry Water Years	-0.7	-0.3	-0.2	0.2	0.2	0.3	0.1	0.0	0.0	-0.3	-0.7	-0.7
Critical Water	-0.1	-0.1	-0.1	0.2	0.0	0.2	0.1	0.0	0.0	-0.3	-0.5	-0.3

[a] Based on the 82-year simulation period.

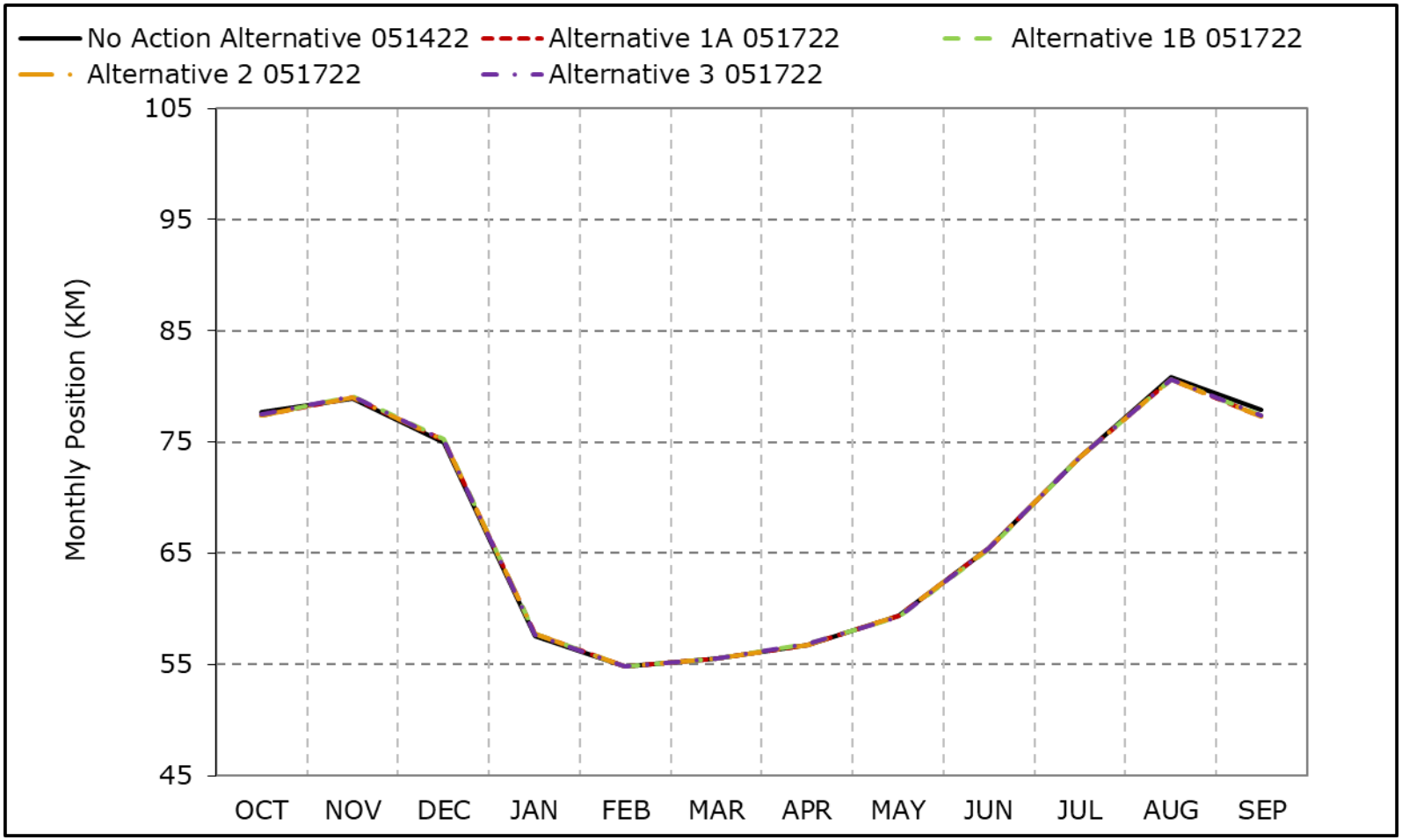
* All scenarios are simulated at current climate condition and 0 cm sea level rise.
* As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
* These results are displayed with calendar year - year type sorting.

Figure 6B3-1-1. X2, Long-Term Average Position



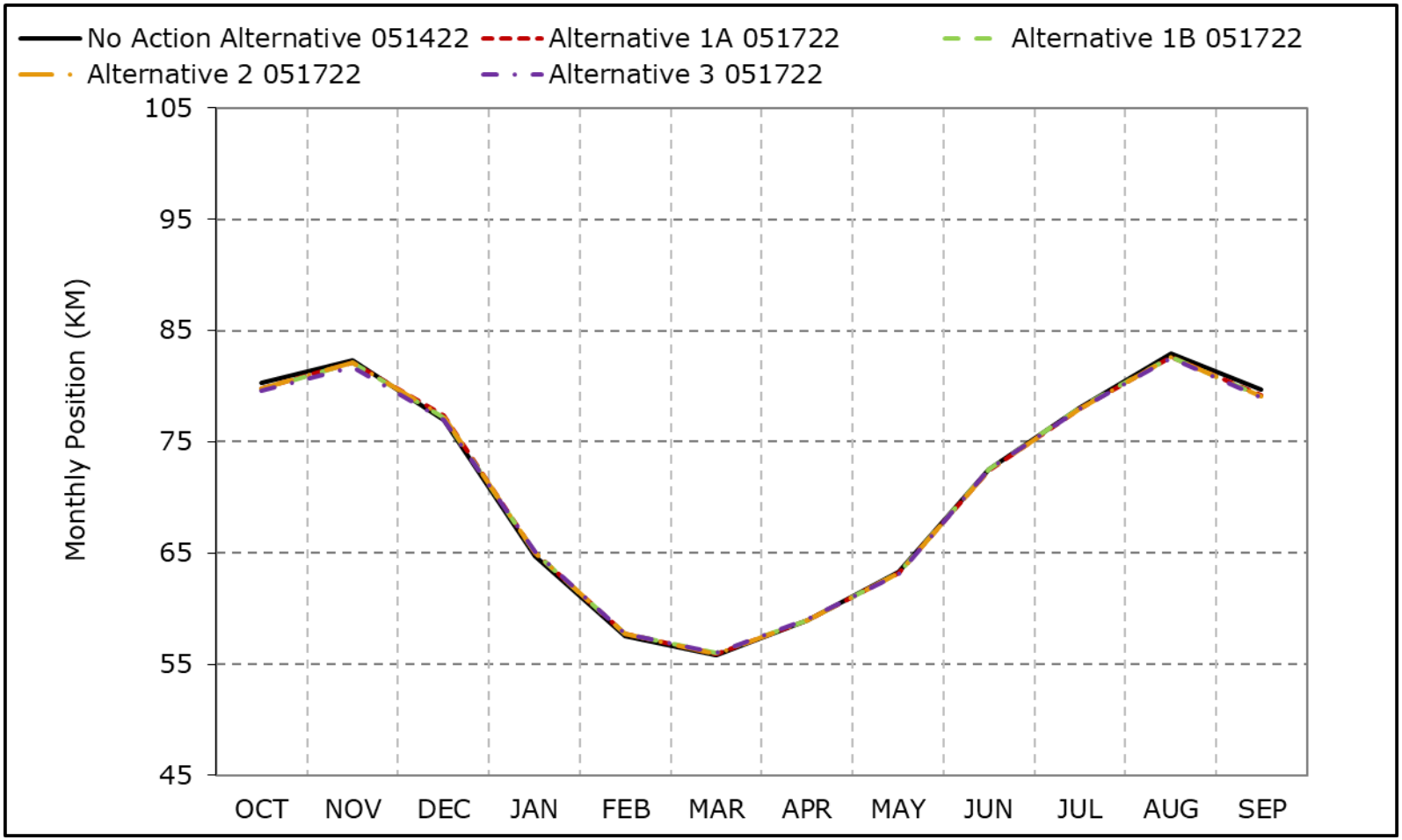
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-2. X2, Wet Year Average Position



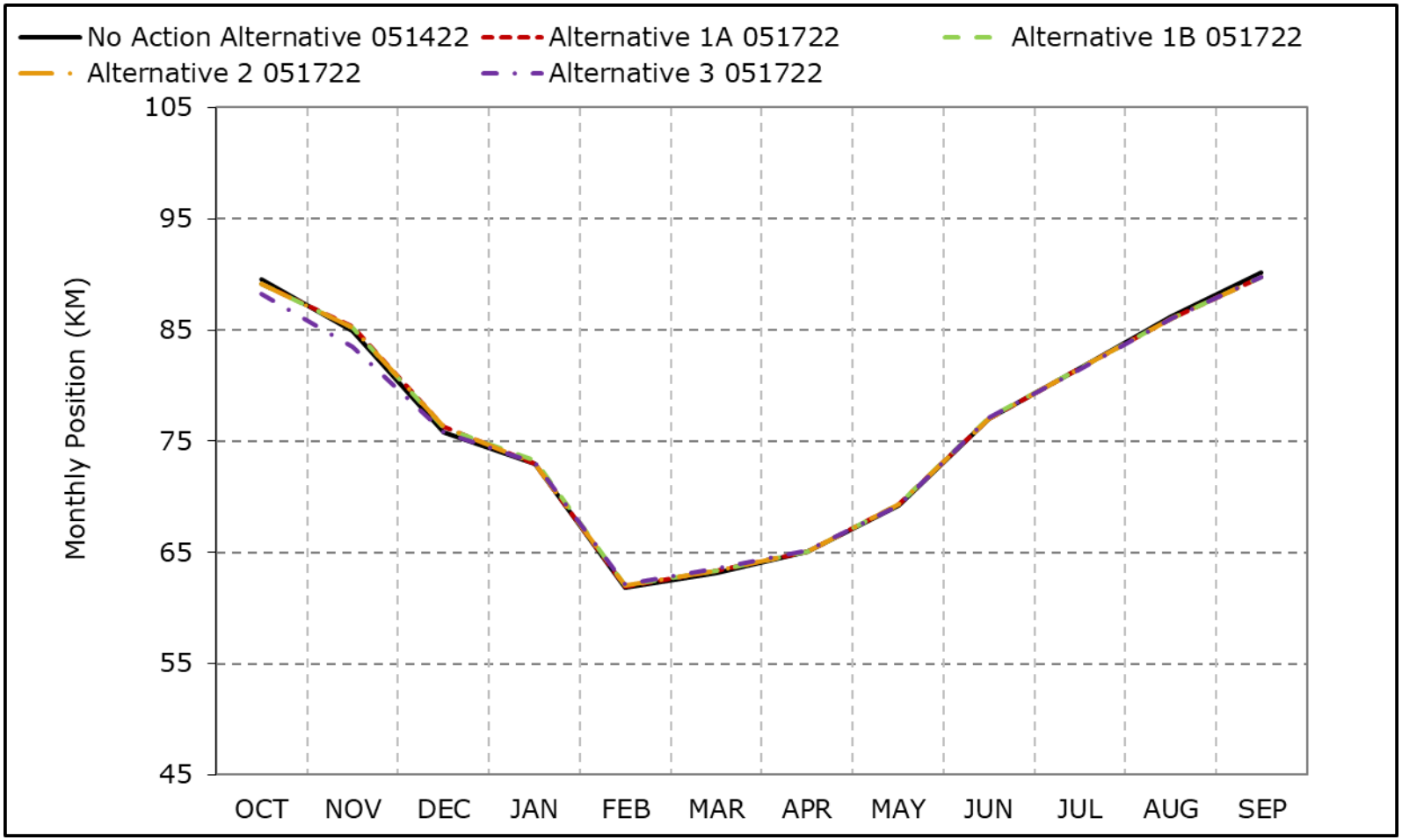
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-3. X2, Above Normal Year Average Position



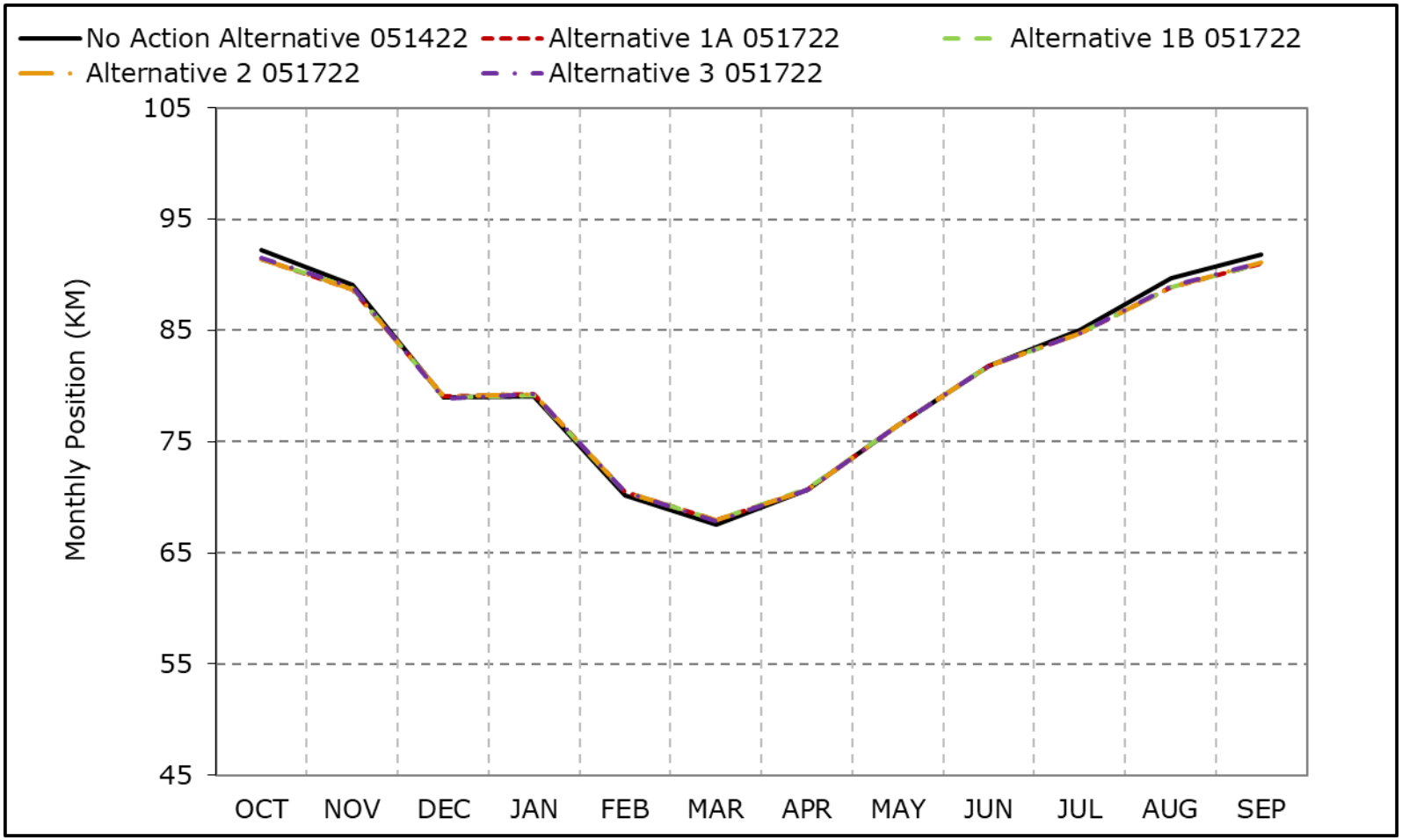
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-4. X2, Below Normal Year Average Position



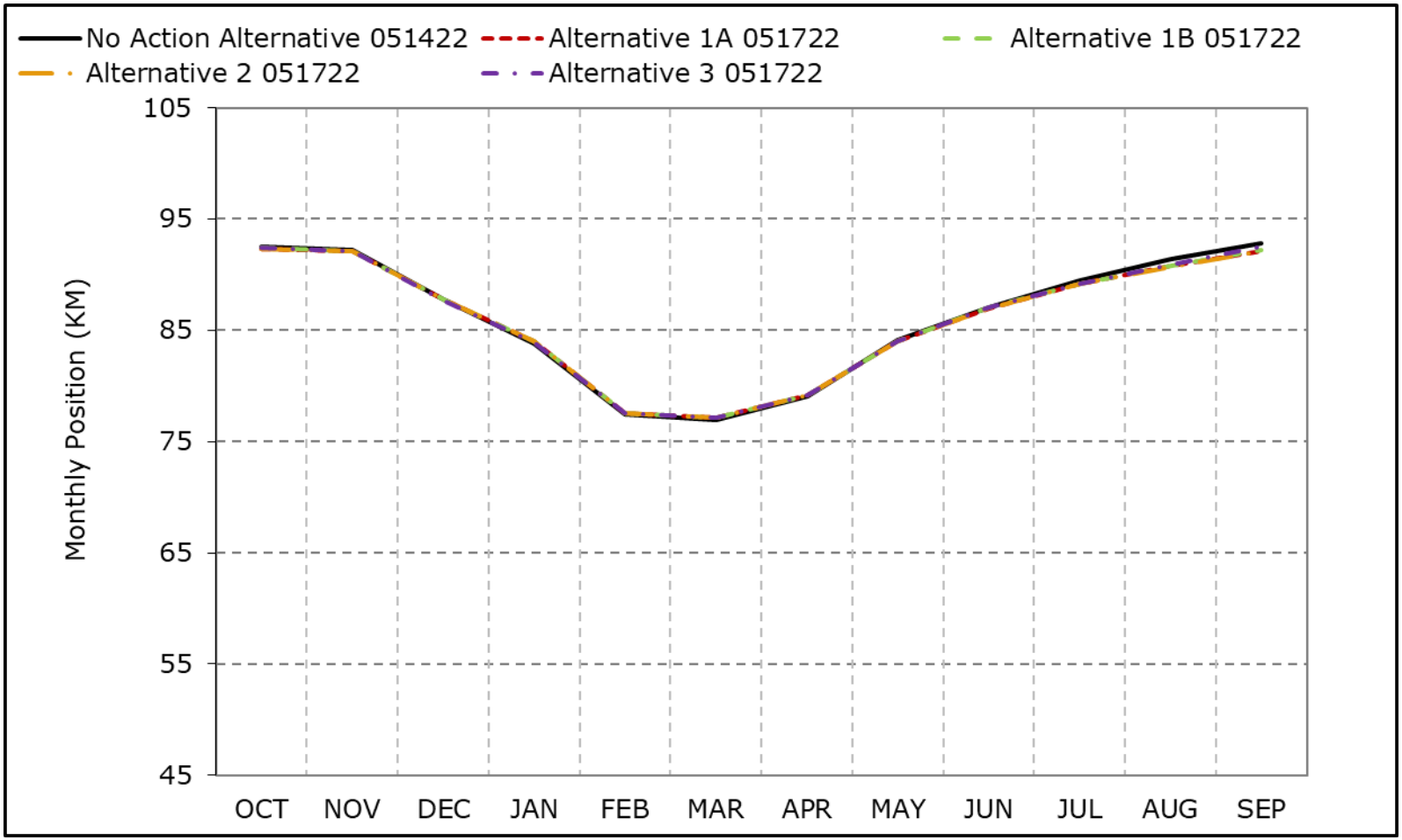
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-5. X2, Dry Year Average Position



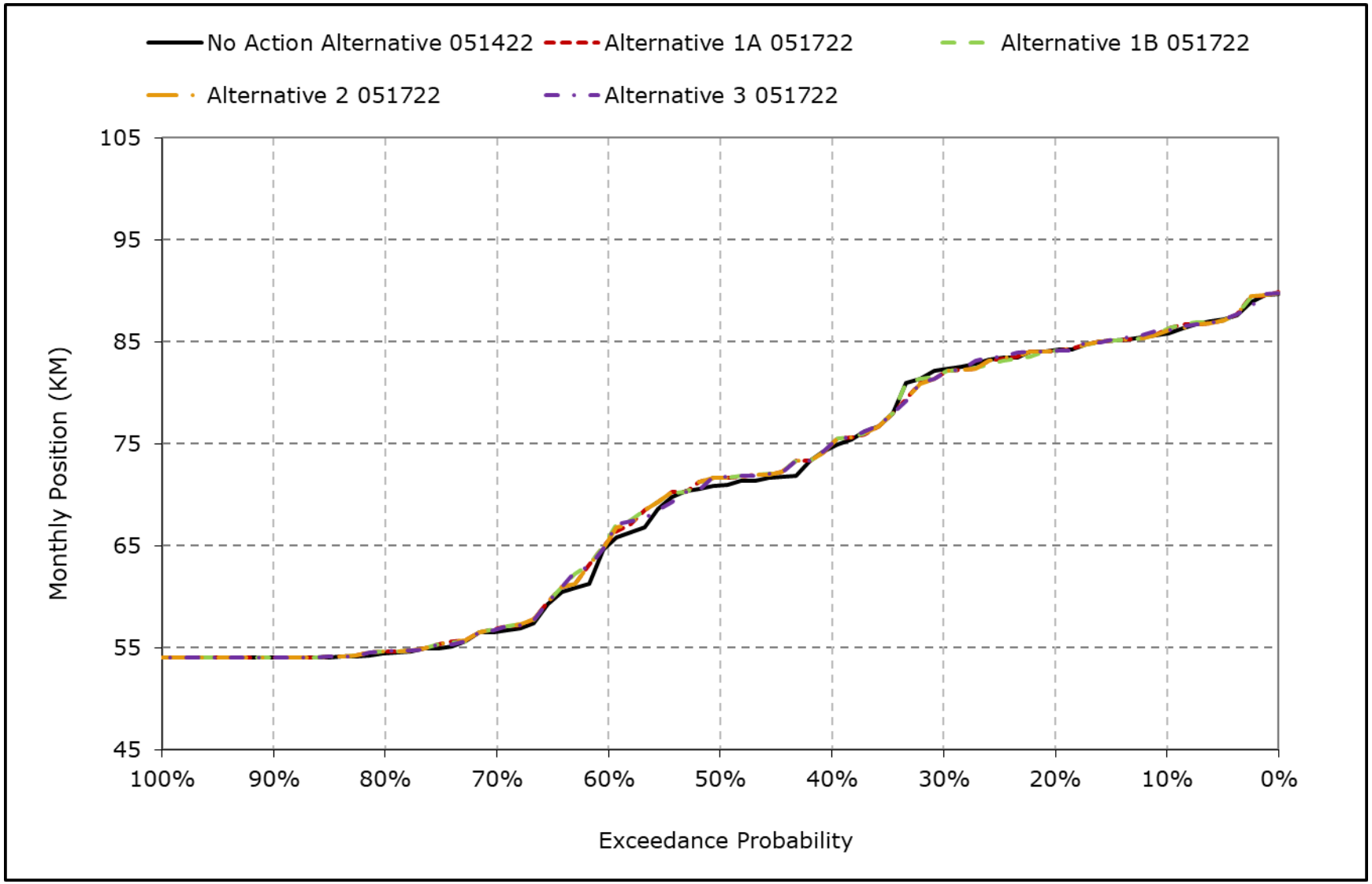
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-6. X2, Critical Year Average Position



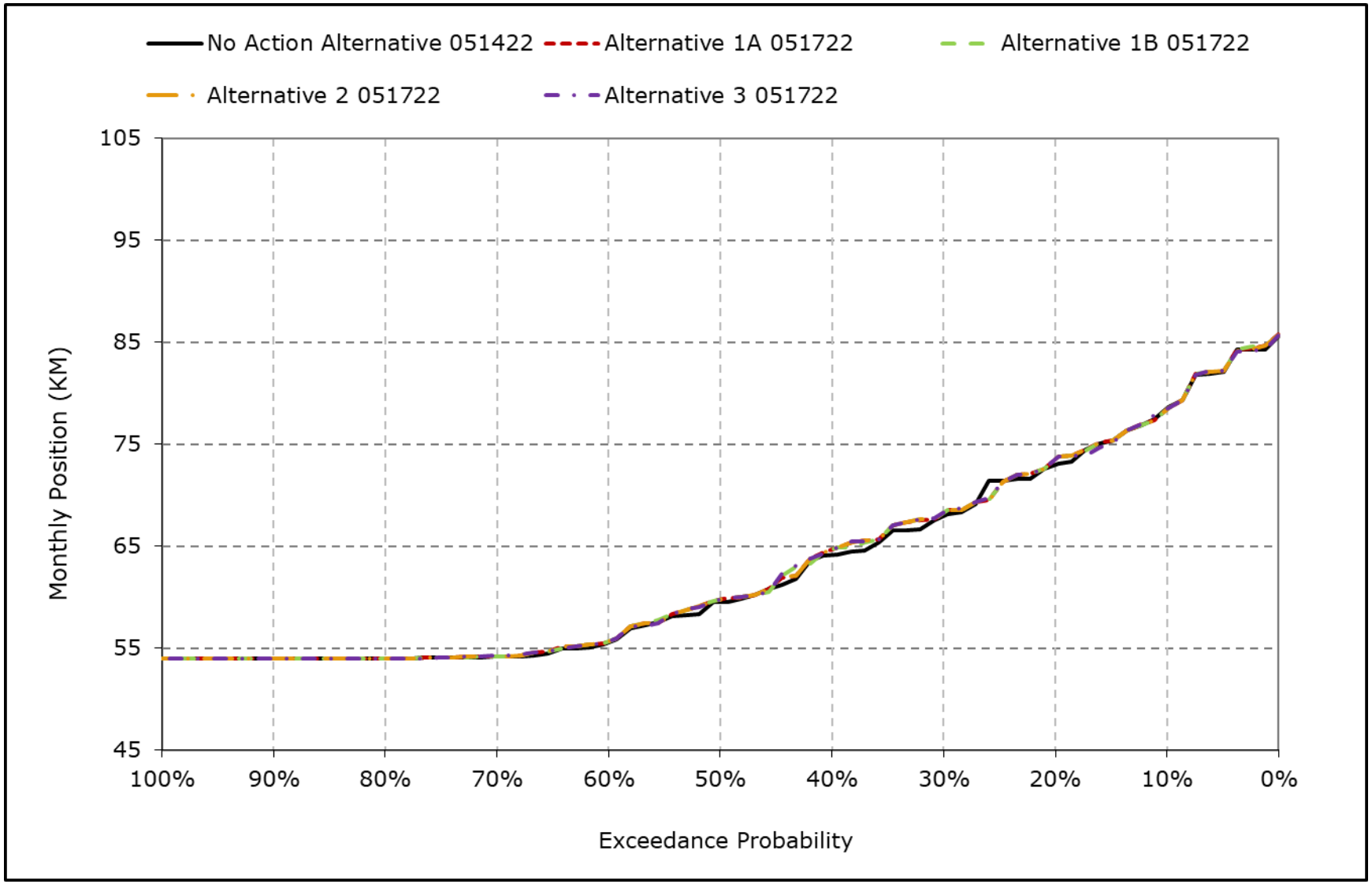
*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).
*These results are displayed with calendar year - year type sorting.
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-7. X2, January Position



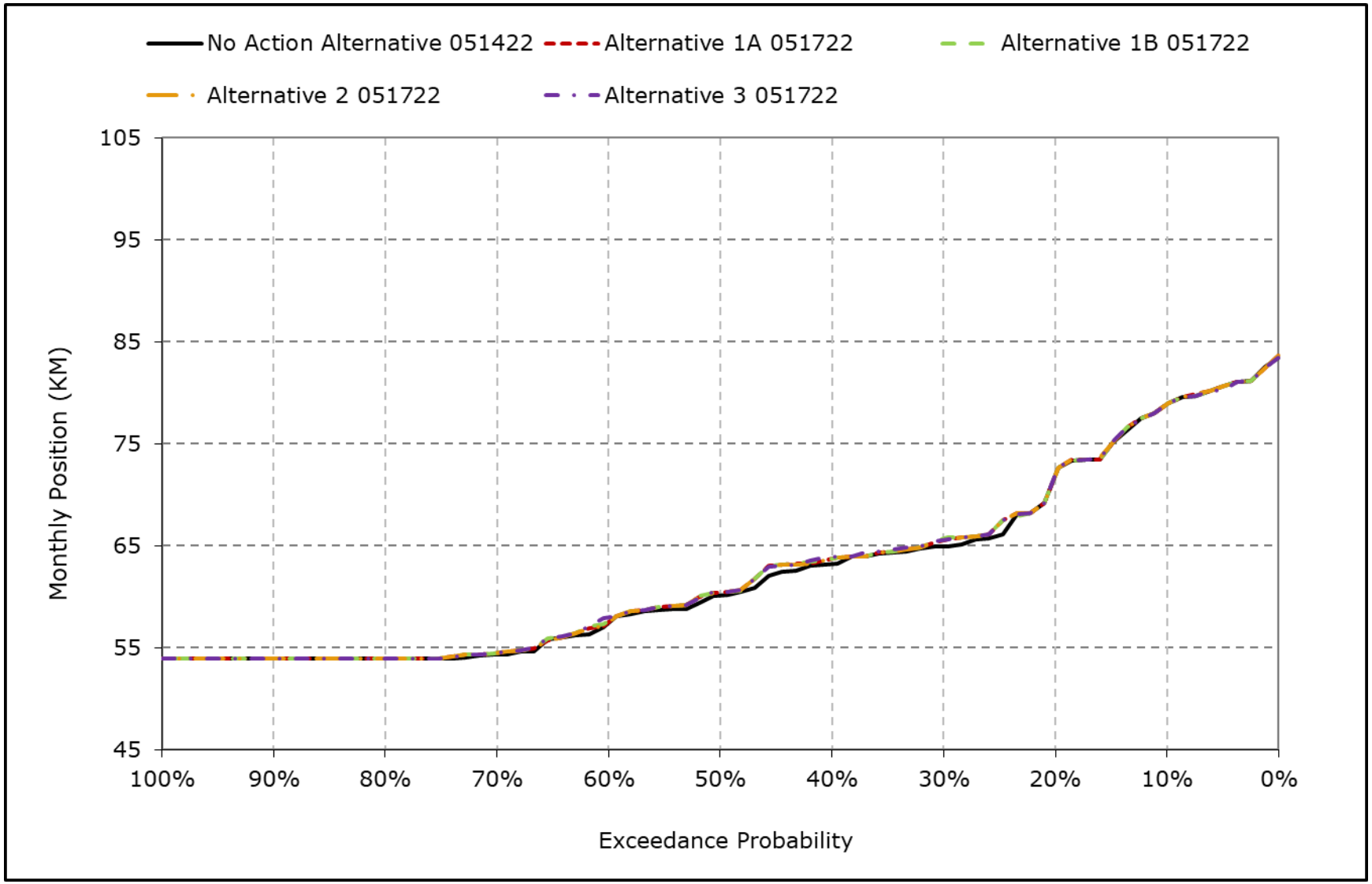
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-8. X2, February Position



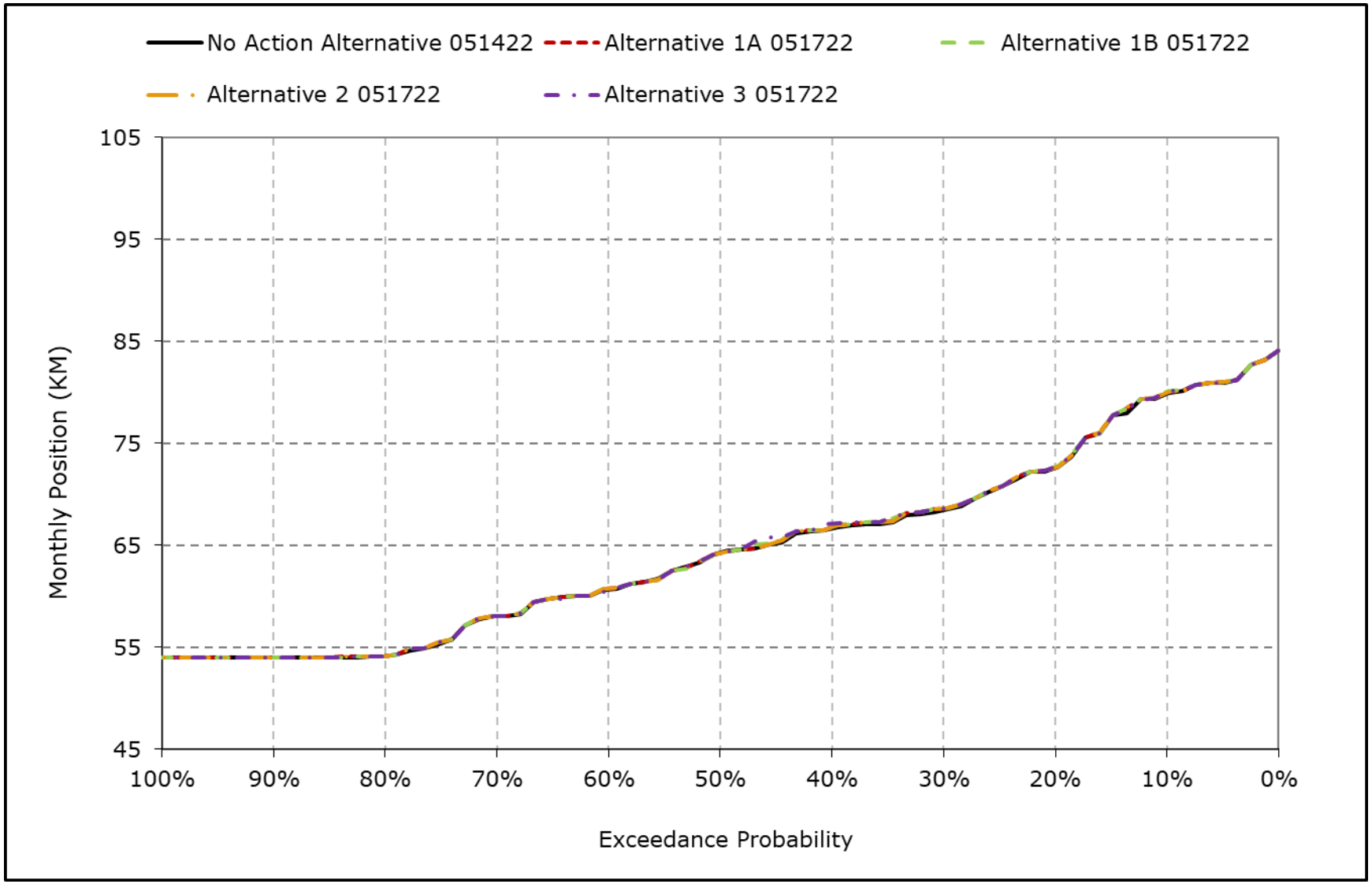
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-9. X2, March Position



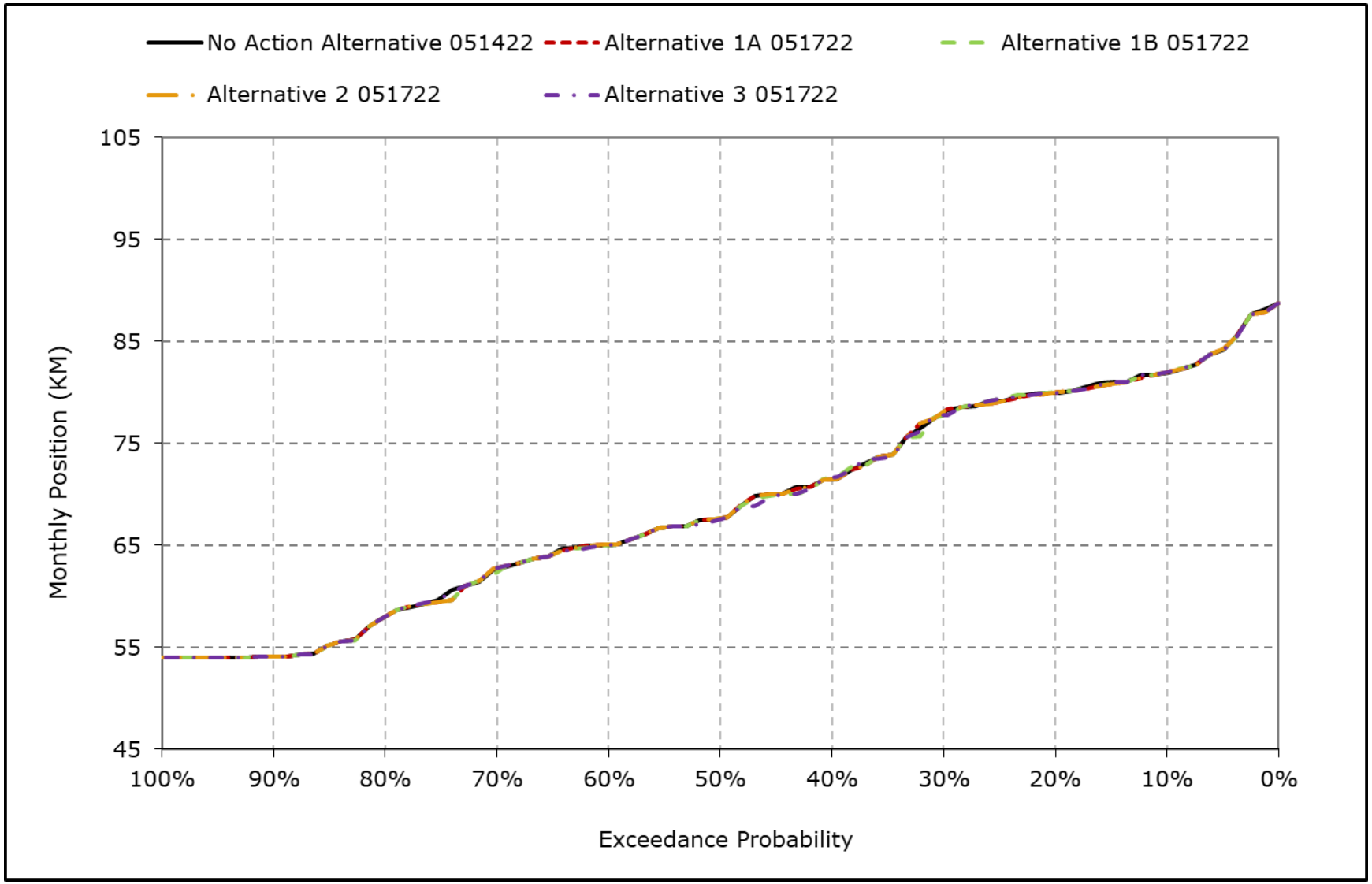
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-10. X2, April Position



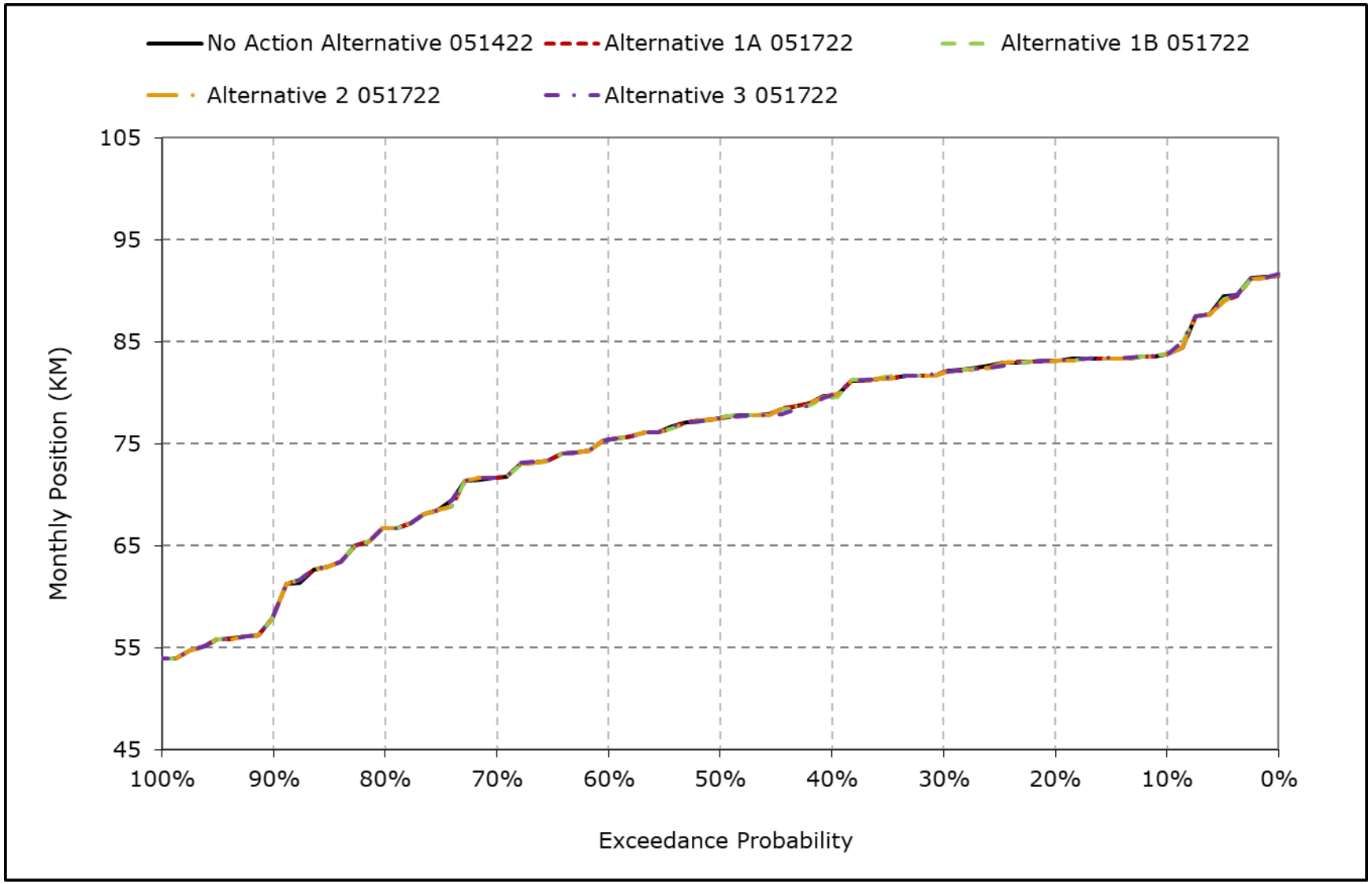
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-11. X2, May Position



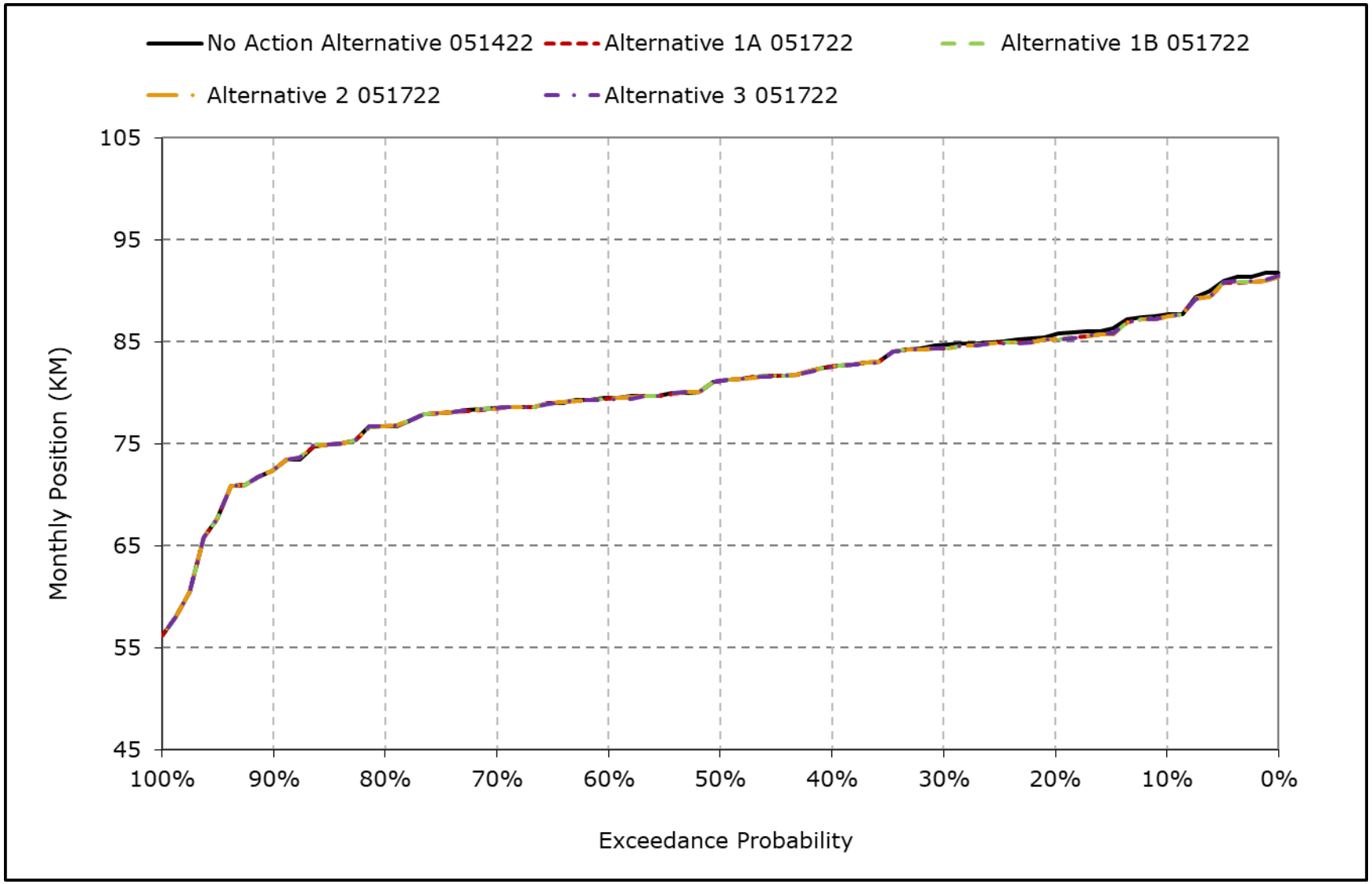
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-12. X2, June Position



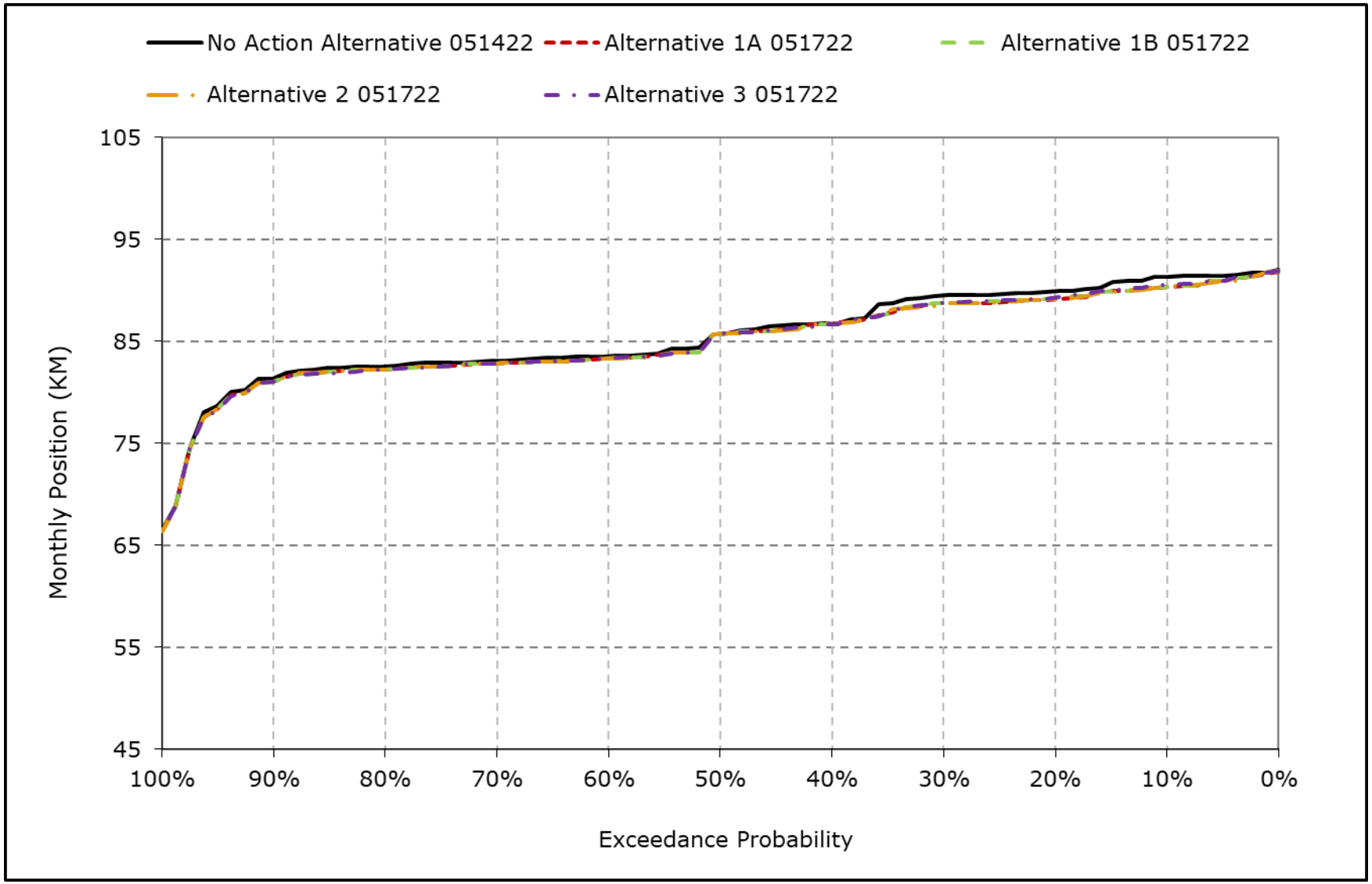
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-13. X2, July Position



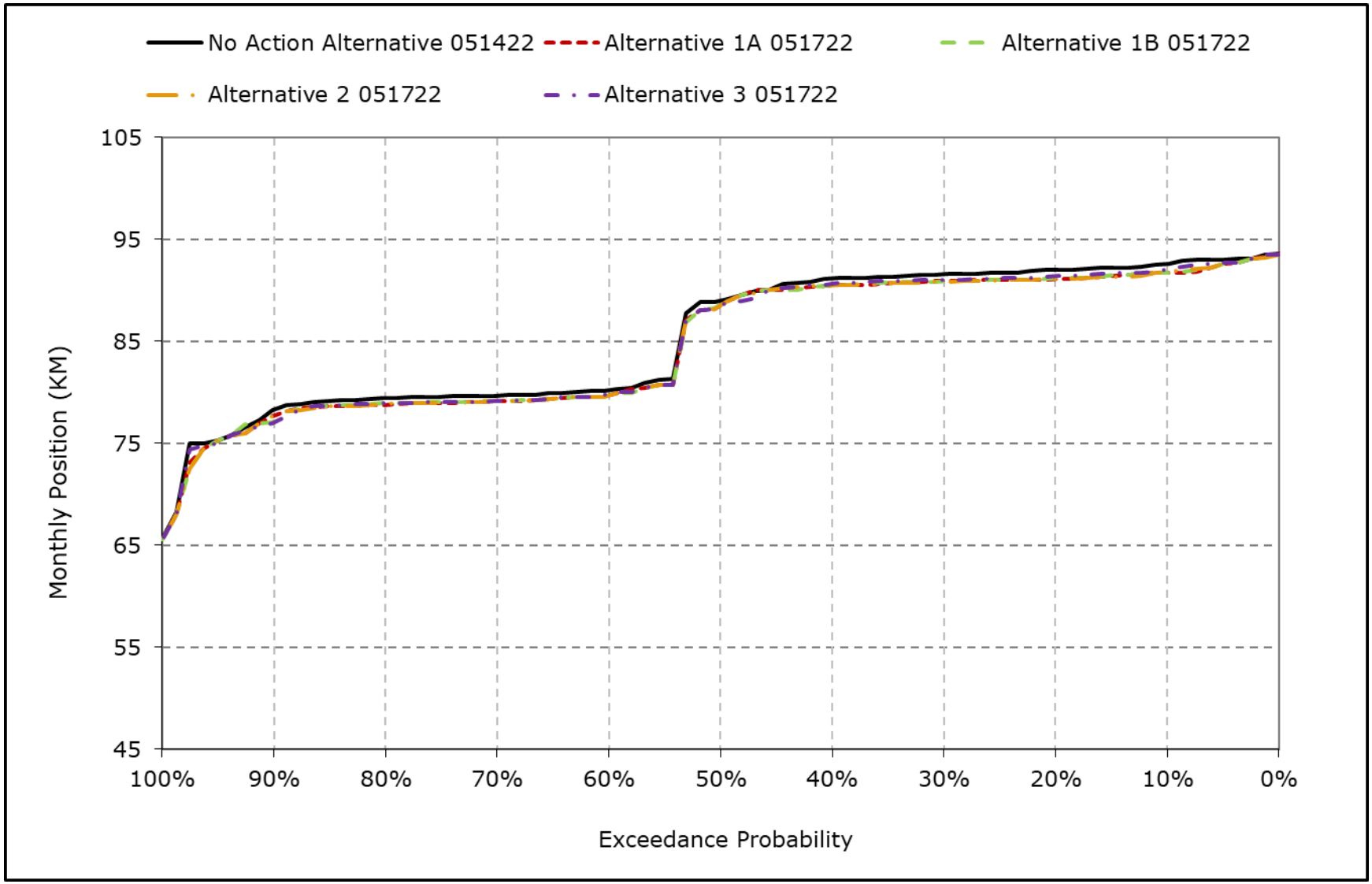
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-14. X2, August Position



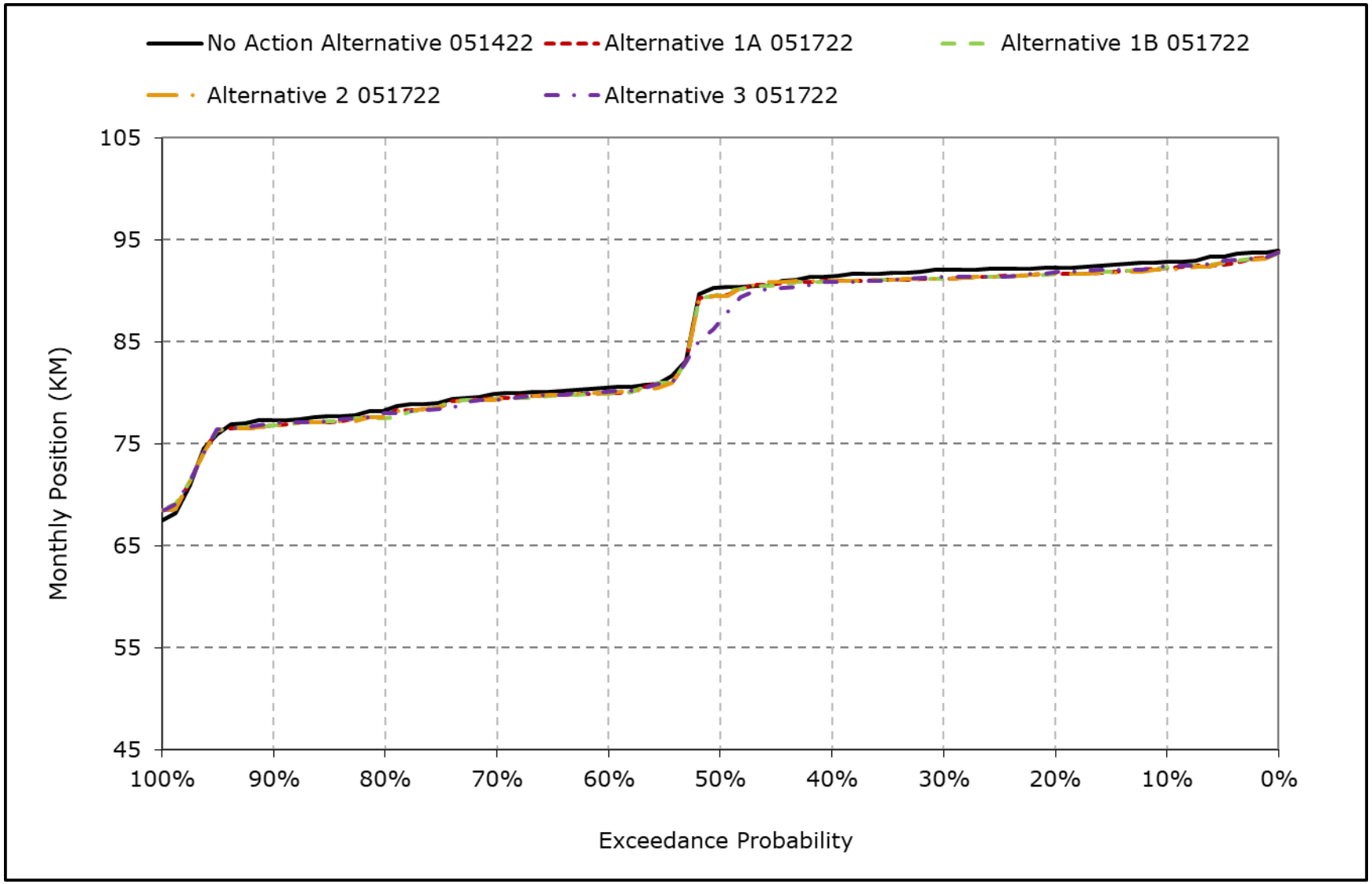
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-15. X2, September Position



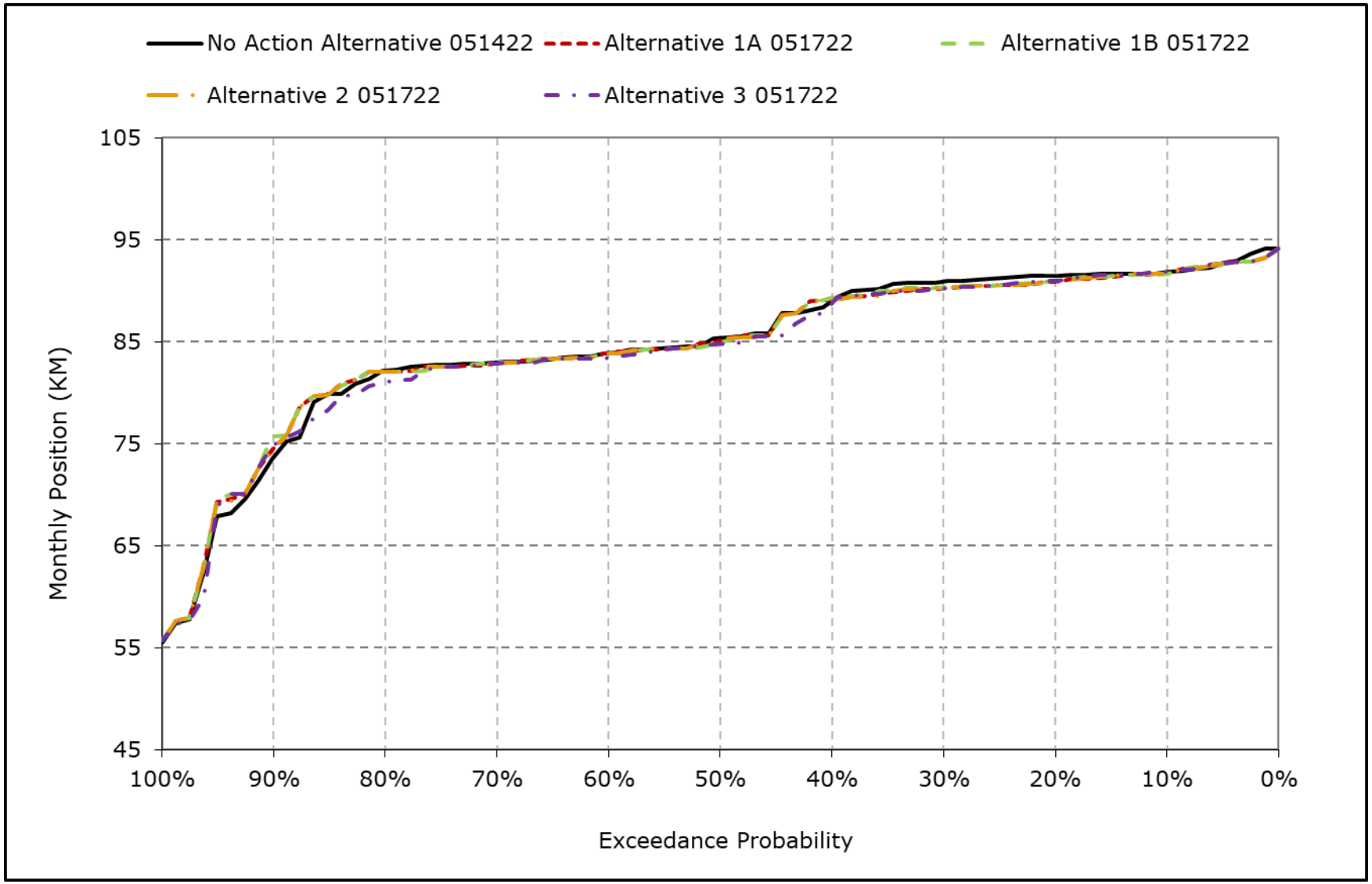
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-16. X2, October Position



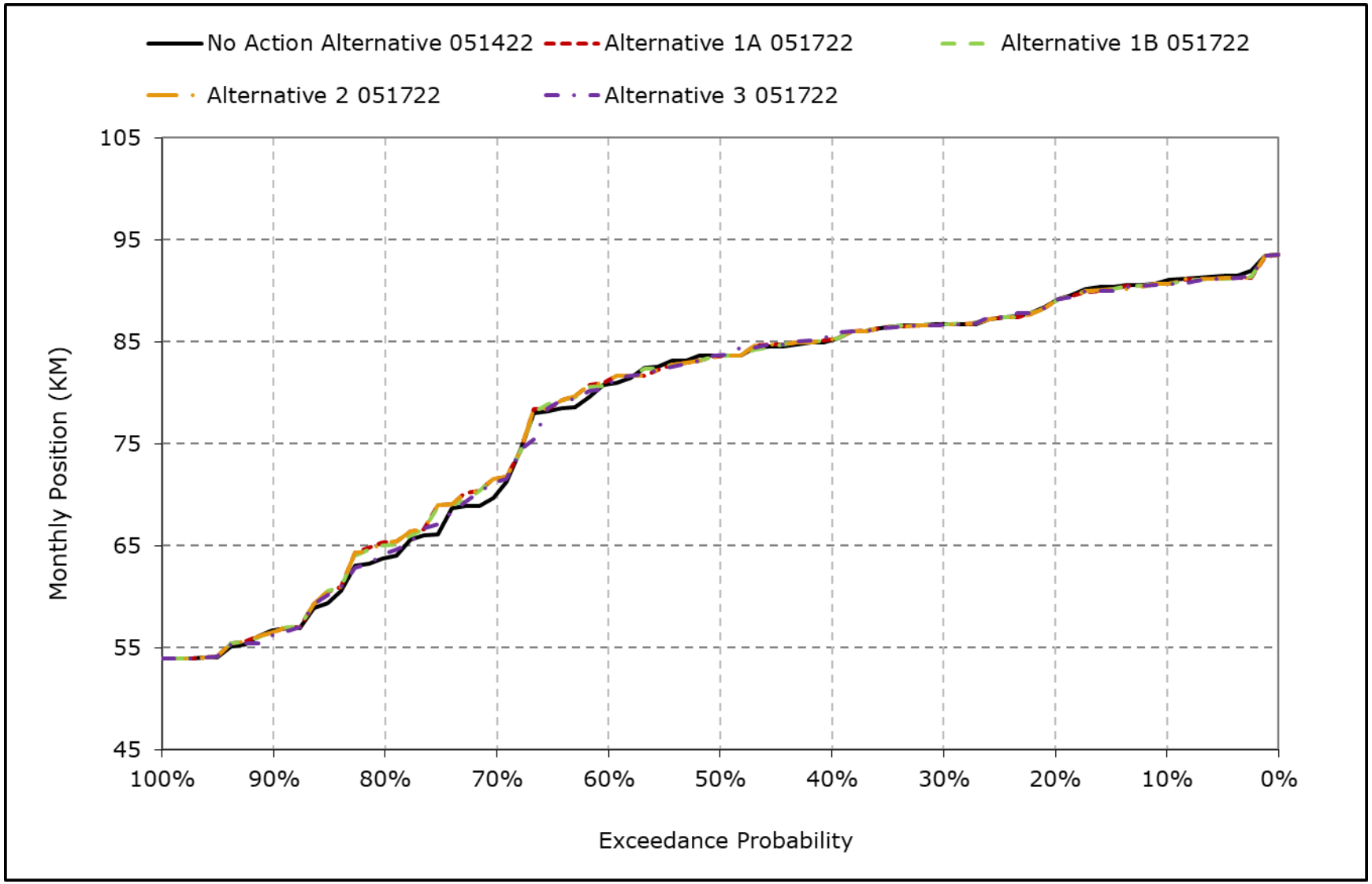
*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-17. X2, November Position



*All scenarios are simulated at current climate condition and 0 cm sea level rise.

Figure 6B3-1-18. X2, December Position



*All scenarios are simulated at current climate condition and 0 cm sea level rise.