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Appendix F: Modeling

Attachment 2-6, DSM2 – X2

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The following results of the DSM2 QUAL model with 2022 Median climate conditions and 15 cm sea level rise are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- EXP1 090623 (EXP1)
- EXP3 090623 (EXP3)
- Alt2woTUCPwoVA 090723 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 090723 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAllVA 090723 (Alt2woTUCPAllVA)
- Alt2wTUCPwoVA 090723 (Alt2wTUCPwoVA)

Section	Output Parameters	Table Numbers	Figure Numbers
X2	X2 Distance	F.2.6-1-1a to F.2.6-1-10c	F.2.6-1-1 to F.2.6-1-18

Report formats

- Monthly tables include a comparison of an alternative and the baseline (NAA, and EXP1) (exceedance values, long-term average, and average by water year type) by subtracting the values in the NAA or EXP1 table (the table presented at the top of the page) from the values in the alternative table (the second table from the top of the page).
- Monthly pattern charts (long-term average and average by water year type) including all alternatives.
- Monthly exceedance charts (all months) including all alternatives.

Table F.2.6-1-1a. X2, NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	89	87	80	78	83	87	90	91	93	93
20% Exceedance	93	92	88	85	75	73	78	80	83	86	90	92
30% Exceedance	92	91	87	80	68	67	72	78	82	85	89	92
40% Exceedance	91	90	86	73	65	65	69	77	81	84	88	91
50% Exceedance	90	86	83	68	62	63	66	73	80	83	86	89
60% Exceedance	80	85	76	64	58	59	64	70	79	81	83	81
70% Exceedance	80	85	68	59	55	56	61	67	78	79	83	80
80% Exceedance	79	84	63	55	53	54	57	62	74	79	82	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	79
Full Simulation Period Average^a	86	86	77	69	64	64	68	72	79	83	86	86
Wet Water Years (28%)	79	80	74	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	68	77	79	83	80
Below Normal Years (18%)	90	89	74	70	66	64	68	72	80	83	86	90
Dry Water Years (24%)	91	88	78	79	69	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	83	77	77	84	87	90	92	93	93

Table F.2.6-1-1b. X2, Alt2woTUCPwoVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	94	92	90	87	78	76	80	83	85	88	92	93
20% Exceedance	93	92	88	83	74	72	76	80	83	86	90	92
30% Exceedance	92	91	87	79	68	67	72	80	82	85	90	92
40% Exceedance	91	90	86	74	65	65	69	78	81	84	88	91
50% Exceedance	90	86	82	69	62	63	67	75	80	83	86	90
60% Exceedance	80	85	77	64	57	59	64	71	79	81	84	81
70% Exceedance	80	85	68	59	55	56	62	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	58	62	74	79	83	80
90% Exceedance	79	78	56	53	52	53	55	59	70	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	63	67	73	79	83	86	87
Wet Water Years (28%)	79	80	75	56	54	55	58	64	72	78	82	80
Above Normal Years (14%)	79	83	77	63	57	57	62	70	77	80	83	80
Below Normal Years (18%)	90	88	73	70	66	64	68	74	80	83	86	90
Dry Water Years (24%)	91	88	77	79	68	68	72	77	82	85	89	92
Critical Water Years (16%)	94	92	85	82	76	76	80	85	88	89	92	93

Table F.2.6-1-1c. X2, Alt2woTUCPwoVA minus NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-1	0	0	-2	-3	-3	-4	-5	-3	-1	0
20% Exceedance	0	0	0	-1	-1	-2	-2	0	0	0	0	0
30% Exceedance	0	0	0	-1	0	0	0	1	0	0	0	0
40% Exceedance	0	0	0	1	0	0	1	1	0	0	0	0
50% Exceedance	0	0	-1	0	0	0	1	2	0	0	0	1
60% Exceedance	0	0	1	0	0	0	0	1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
Full Simulation Period Average^a	0	0	0	0	0	0	0	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	1	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	1	1	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	1	1	0	0	0	0
Dry Water Years (24%)	0	0	0	-1	-1	0	0	1	0	0	0	0
Critical Water Years (16%)	0	-1	0	0	-1	-2	-4	-3	-2	-2	-1	0

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-2a. X2, NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	89	87	80	78	83	87	90	91	93	93
20% Exceedance	93	92	88	85	75	73	78	80	83	86	90	92
30% Exceedance	92	91	87	80	68	67	72	78	82	85	89	92
40% Exceedance	91	90	86	73	65	65	69	77	81	84	88	91
50% Exceedance	90	86	83	68	62	63	66	73	80	83	86	89
60% Exceedance	80	85	76	64	58	59	64	70	79	81	83	81
70% Exceedance	80	85	68	59	55	56	61	67	78	79	83	80
80% Exceedance	79	84	63	55	53	54	57	62	74	79	82	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	79
Full Simulation Period Average^a	86	86	77	69	64	64	68	72	79	83	86	86
Wet Water Years (28%)	79	80	74	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	68	77	79	83	80
Below Normal Years (18%)	90	89	74	70	66	64	68	72	80	83	86	90
Dry Water Years (24%)	91	88	78	79	69	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	83	77	77	84	87	90	92	93	93

Table F.2.6-1-2b. X2, Alt2woTUCPDeltaVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	94	92	89	87	80	75	79	83	85	88	92	93
20% Exceedance	93	92	88	84	74	71	75	80	84	86	90	92
30% Exceedance	92	91	87	79	68	66	72	79	83	85	89	92
40% Exceedance	91	89	86	73	65	65	68	77	81	84	88	91
50% Exceedance	90	86	82	69	62	62	66	75	80	83	86	90
60% Exceedance	80	85	77	64	57	59	63	71	79	81	84	81
70% Exceedance	80	85	68	59	55	56	61	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	57	62	74	79	83	80
90% Exceedance	79	78	56	53	52	53	55	59	70	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	63	67	73	79	83	86	87
Wet Water Years (28%)	79	80	75	56	54	55	58	64	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	69	77	79	83	80
Below Normal Years (18%)	90	88	73	70	66	63	67	73	80	83	86	90
Dry Water Years (24%)	91	88	77	79	68	67	71	77	82	85	89	92
Critical Water Years (16%)	94	92	85	82	77	76	80	85	88	89	92	93

Table F.2.6-1-2c. X2, Alt2woTUCPDeltaVA minus NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	-1	0	0	0	-3	-3	-4	-5	-3	-1	0
20% Exceedance	0	0	0	-1	-1	-3	-3	0	0	0	0	0
30% Exceedance	0	0	0	-1	0	0	-1	1	1	0	0	0
40% Exceedance	0	-1	0	1	0	-1	0	0	0	0	0	0
50% Exceedance	0	0	0	0	0	-1	0	2	0	0	0	1
60% Exceedance	0	0	1	0	0	-1	0	1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
Full Simulation Period Average^a	0	0	0	0	0	-1	-1	0	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	1	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	0	1	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	-1	0	1	0	0	0	0
Dry Water Years (24%)	0	0	0	0	-1	-1	-1	0	0	0	0	0
Critical Water Years (16%)	0	-1	0	0	0	-2	-4	-3	-2	-3	-1	0

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-3a. X2, NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	89	87	80	78	83	87	90	91	93	93
20% Exceedance	93	92	88	85	75	73	78	80	83	86	90	92
30% Exceedance	92	91	87	80	68	67	72	78	82	85	89	92
40% Exceedance	91	90	86	73	65	65	69	77	81	84	88	91
50% Exceedance	90	86	83	68	62	63	66	73	80	83	86	89
60% Exceedance	80	85	76	64	58	59	64	70	79	81	83	81
70% Exceedance	80	85	68	59	55	56	61	67	78	79	83	80
80% Exceedance	79	84	63	55	53	54	57	62	74	79	82	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	79
Full Simulation Period Average^a	86	86	77	69	64	64	68	72	79	83	86	86
Wet Water Years (28%)	79	80	74	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	68	77	79	83	80
Below Normal Years (18%)	90	89	74	70	66	64	68	72	80	83	86	90
Dry Water Years (24%)	91	88	78	79	69	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	83	77	77	84	87	90	92	93	93

Table F.2.6-1-3b. X2, Alt2woTUCPAIIVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	94	93	89	87	80	75	79	82	85	88	92	93
20% Exceedance	93	92	88	84	74	70	74	79	83	86	90	92
30% Exceedance	92	91	87	79	68	66	70	78	82	85	89	92
40% Exceedance	91	90	86	73	65	64	67	76	81	85	88	91
50% Exceedance	90	86	82	69	62	62	65	72	80	83	86	90
60% Exceedance	80	85	77	64	57	59	63	69	79	80	84	81
70% Exceedance	80	85	68	59	55	56	61	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	57	62	74	79	83	80
90% Exceedance	79	77	56	53	52	53	55	59	70	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	63	66	72	79	83	86	87
Wet Water Years (28%)	79	80	75	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	61	68	76	79	83	80
Below Normal Years (18%)	90	88	73	70	66	63	66	71	80	83	86	90
Dry Water Years (24%)	91	88	77	79	68	67	70	75	81	85	89	92
Critical Water Years (16%)	94	93	85	83	77	76	79	84	87	89	92	93

Table F.2.6-1-3c. X2, Alt2woTUCPAIIVA minus NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	0	0	-3	-4	-4	-6	-3	-1	0
20% Exceedance	0	0	0	-1	-1	-3	-4	-1	0	0	0	0
30% Exceedance	0	0	0	-1	0	0	-2	0	0	0	0	0
40% Exceedance	0	-1	0	1	0	-1	-2	-1	0	0	-1	0
50% Exceedance	0	0	0	1	0	-1	-1	-1	0	0	0	1
60% Exceedance	0	0	1	0	0	0	-1	-1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	-1	0	0	0	0	0
80% Exceedance	0	0	0	0	0	0	0	-1	0	0	0	0
90% Exceedance	0	-1	0	0	0	0	0	1	0	0	0	0
Full Simulation Period Average^a	0	0	0	0	0	-1	-2	-1	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	1	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	-1	-1	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	-1	-2	-1	0	0	0	0
Dry Water Years (24%)	0	0	0	-1	-1	-1	-2	-1	0	0	0	0
Critical Water Years (16%)	0	0	0	0	0	-2	-4	-4	-3	-3	-1	0

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-4a. X2, NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	89	87	80	78	83	87	90	91	93	93
20% Exceedance	93	92	88	85	75	73	78	80	83	86	90	92
30% Exceedance	92	91	87	80	68	67	72	78	82	85	89	92
40% Exceedance	91	90	86	73	65	65	69	77	81	84	88	91
50% Exceedance	90	86	83	68	62	63	66	73	80	83	86	89
60% Exceedance	80	85	76	64	58	59	64	70	79	81	83	81
70% Exceedance	80	85	68	59	55	56	61	67	78	79	83	80
80% Exceedance	79	84	63	55	53	54	57	62	74	79	82	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	79
Full Simulation Period Average^a	86	86	77	69	64	64	68	72	79	83	86	86
Wet Water Years (28%)	79	80	74	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	68	77	79	83	80
Below Normal Years (18%)	90	89	74	70	66	64	68	72	80	83	86	90
Dry Water Years (24%)	91	88	78	79	69	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	83	77	77	84	87	90	92	93	93

Table F.2.6-1-4b. X2, Alt2wTUCPwoVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	90	86	78	79	81	86	91	92	93	93
20% Exceedance	93	92	89	83	74	73	78	80	83	87	90	92
30% Exceedance	92	91	87	79	67	67	73	80	83	85	90	92
40% Exceedance	91	90	86	73	65	65	69	78	82	84	88	91
50% Exceedance	90	86	82	68	62	63	67	75	80	83	86	90
60% Exceedance	80	85	77	64	57	59	64	71	79	81	84	81
70% Exceedance	80	85	68	59	55	56	62	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	58	62	74	79	83	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	64	68	73	79	83	87	87
Wet Water Years (28%)	79	80	74	56	54	55	58	64	72	78	82	80
Above Normal Years (14%)	79	83	77	63	57	57	62	70	77	80	83	80
Below Normal Years (18%)	90	88	73	70	65	64	68	74	80	83	86	90
Dry Water Years (24%)	91	88	78	79	68	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	81	76	77	83	87	90	92	93	93

Table F.2.6-1-4c. X2, Alt2wTUCPwoVA minus NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	0	0	0	-1	-2	0	-1	-1	1	1	0	0
20% Exceedance	0	0	1	-1	-1	0	0	0	0	1	0	0
30% Exceedance	0	0	0	0	0	0	0	1	1	0	0	0
40% Exceedance	0	0	0	0	0	0	1	1	0	0	-1	0
50% Exceedance	0	0	-1	0	0	0	1	2	0	0	0	0
60% Exceedance	0	0	1	0	0	0	0	1	0	0	0	0
70% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
80% Exceedance	0	0	0	0	0	0	1	0	0	0	0	0
90% Exceedance	0	0	0	0	0	0	0	1	0	0	0	0
Full Simulation Period Average^a	0	0	0	0	0	0	0	1	0	0	0	0
Wet Water Years (28%)	0	0	0	0	0	0	0	1	0	0	0	0
Above Normal Years (14%)	0	0	0	0	0	0	1	1	0	0	0	0
Below Normal Years (18%)	0	0	0	0	0	0	0	1	0	0	0	0
Dry Water Years (24%)	0	0	0	0	-1	0	0	1	0	0	0	0
Critical Water Years (16%)	0	0	0	-1	-1	0	0	0	0	0	0	0

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-5a. X2, NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	89	87	80	78	83	87	90	91	93	93
20% Exceedance	93	92	88	85	75	73	78	80	83	86	90	92
30% Exceedance	92	91	87	80	68	67	72	78	82	85	89	92
40% Exceedance	91	90	86	73	65	65	69	77	81	84	88	91
50% Exceedance	90	86	83	68	62	63	66	73	80	83	86	89
60% Exceedance	80	85	76	64	58	59	64	70	79	81	83	81
70% Exceedance	80	85	68	59	55	56	61	67	78	79	83	80
80% Exceedance	79	84	63	55	53	54	57	62	74	79	82	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	79
Full Simulation Period Average^a	86	86	77	69	64	64	68	72	79	83	86	86
Wet Water Years (28%)	79	80	74	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	68	77	79	83	80
Below Normal Years (18%)	90	89	74	70	66	64	68	72	80	83	86	90
Dry Water Years (24%)	91	88	78	79	69	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	83	77	77	84	87	90	92	93	93

Table F.2.6-1-5b. X2, EXP3, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	88	87	82	74	70	71	79	83	89	90	91	89
20% Exceedance	85	83	78	71	67	67	75	81	88	89	90	88
30% Exceedance	84	81	73	67	63	63	71	79	87	88	90	86
40% Exceedance	82	80	67	63	61	61	68	74	84	86	89	85
50% Exceedance	81	78	64	61	58	58	65	71	81	84	87	85
60% Exceedance	80	76	61	58	55	57	61	67	78	83	86	83
70% Exceedance	79	74	58	56	54	55	59	64	74	81	85	82
80% Exceedance	78	71	55	54	53	53	56	60	68	78	83	80
90% Exceedance	76	66	53	53	52	53	54	56	63	75	81	77
Full Simulation Period Average^a	81	77	66	63	60	60	66	71	78	83	87	84
Wet Water Years (28%)	77	71	61	54	53	54	57	60	68	77	82	79
Above Normal Years (14%)	80	76	63	57	55	55	61	66	75	81	85	82
Below Normal Years (18%)	81	77	65	61	61	60	66	72	81	84	87	84
Dry Water Years (24%)	82	78	69	69	63	63	70	77	84	87	90	86
Critical Water Years (16%)	88	86	76	74	70	71	80	84	88	91	92	89

Table F.2.6-1-5c. X2, EXP3 minus NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	-6	-7	-13	-11	-7	-3	-3	-2	-1	-1	-4
20% Exceedance	-7	-9	-10	-14	-8	-6	-3	2	4	3	1	-5
30% Exceedance	-8	-10	-15	-12	-5	-4	-1	1	5	3	0	-5
40% Exceedance	-9	-10	-19	-10	-4	-4	-1	-3	3	2	0	-6
50% Exceedance	-9	-8	-19	-7	-4	-4	-2	-2	1	2	1	-5
60% Exceedance	0	-9	-15	-6	-3	-3	-2	-3	-1	2	3	3
70% Exceedance	-1	-11	-10	-3	-1	-1	-3	-2	-4	2	2	2
80% Exceedance	-2	-13	-8	-2	-1	-1	-1	-2	-6	-1	1	1
90% Exceedance	-3	-12	-3	-1	0	0	-1	-2	-7	-3	-1	-2
Full Simulation Period Average^a	-5	-9	-11	-7	-4	-3	-2	-2	-1	1	0	-3
Wet Water Years (28%)	-1	-9	-14	-2	-1	-1	-1	-2	-4	-1	0	0
Above Normal Years (14%)	1	-7	-14	-5	-2	-1	-1	-2	-2	1	2	3
Below Normal Years (18%)	-9	-12	-9	-9	-5	-4	-2	0	1	2	1	-6
Dry Water Years (24%)	-8	-10	-9	-11	-6	-5	-2	0	3	2	0	-5
Critical Water Years (16%)	-6	-7	-9	-8	-7	-6	-4	-4	-2	-1	-1	-4

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-6a. X2, EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	100	99	89	76	68	67	73	85	96	101	102	100
20% Exceedance	99	94	84	72	65	63	67	80	93	100	102	99
30% Exceedance	96	90	77	69	60	59	65	75	89	99	101	99
40% Exceedance	93	86	74	63	59	59	63	71	86	97	100	98
50% Exceedance	89	83	68	60	57	56	60	67	82	95	100	96
60% Exceedance	85	81	64	57	54	55	57	64	78	93	99	93
70% Exceedance	82	80	61	56	54	54	56	61	73	90	97	90
80% Exceedance	81	73	56	53	53	53	54	58	67	85	94	87
90% Exceedance	79	65	53	52	52	53	53	55	62	79	90	84
Full Simulation Period Average^a	91	86	71	63	59	58	62	69	80	92	100	93
Wet Water Years (28%)	81	76	67	54	53	54	55	59	67	82	91	85
Above Normal Years (14%)	85	80	68	57	54	54	57	63	75	90	97	91
Below Normal Years (18%)	90	83	68	62	59	58	61	70	83	95	103	95
Dry Water Years (24%)	92	84	73	68	61	60	64	73	87	98	106	98
Critical Water Years (16%)	115	118	80	77	69	68	75	85	94	100	103	100

Table F.2.6-1-6b. X2, Alt2woTUCPwoVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	94	92	90	87	78	76	80	83	85	88	92	93
20% Exceedance	93	92	88	83	74	72	76	80	83	86	90	92
30% Exceedance	92	91	87	79	68	67	72	80	82	85	90	92
40% Exceedance	91	90	86	74	65	65	69	78	81	84	88	91
50% Exceedance	90	86	82	69	62	63	67	75	80	83	86	90
60% Exceedance	80	85	77	64	57	59	64	71	79	81	84	81
70% Exceedance	80	85	68	59	55	56	62	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	58	62	74	79	83	80
90% Exceedance	79	78	56	53	52	53	55	59	70	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	63	67	73	79	83	86	87
Wet Water Years (28%)	79	80	75	56	54	55	58	64	72	78	82	80
Above Normal Years (14%)	79	83	77	63	57	57	62	70	77	80	83	80
Below Normal Years (18%)	90	88	73	70	66	64	68	74	80	83	86	90
Dry Water Years (24%)	91	88	77	79	68	68	72	77	82	85	89	92
Critical Water Years (16%)	94	92	85	82	76	76	80	85	88	89	92	93

Table F.2.6-1-6c. X2, Alt2woTUCPwoVA minus EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	-7	1	11	10	8	7	-3	-11	-12	-11	-7
20% Exceedance	-6	-2	4	12	9	8	9	0	-10	-13	-11	-7
30% Exceedance	-5	2	10	10	8	7	7	5	-7	-14	-11	-7
40% Exceedance	-1	4	12	11	6	6	7	7	-5	-13	-12	-7
50% Exceedance	1	2	14	8	5	6	7	8	-2	-13	-14	-6
60% Exceedance	-5	4	12	7	3	4	7	7	1	-12	-16	-12
70% Exceedance	-3	5	7	4	1	2	6	6	5	-10	-14	-9
80% Exceedance	-1	11	6	2	1	1	4	5	7	-6	-11	-7
90% Exceedance	0	13	3	1	0	0	2	4	8	-1	-7	-4
Full Simulation Period Average^a	-5	0	6	6	5	5	6	4	-1	-10	-13	-7
Wet Water Years (28%)	-2	5	7	2	1	2	3	5	5	-5	-9	-6
Above Normal Years (14%)	-6	2	9	5	2	2	5	6	2	-11	-14	-11
Below Normal Years (18%)	0	5	6	8	6	6	8	4	-3	-12	-17	-5
Dry Water Years (24%)	-1	3	5	10	7	8	8	4	-6	-12	-17	-6
Critical Water Years (16%)	-22	-26	5	5	7	8	5	0	-7	-11	-11	-7

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-7a. X2, EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	100	99	89	76	68	67	73	85	96	101	102	100
20% Exceedance	99	94	84	72	65	63	67	80	93	100	102	99
30% Exceedance	96	90	77	69	60	59	65	75	89	99	101	99
40% Exceedance	93	86	74	63	59	59	63	71	86	97	100	98
50% Exceedance	89	83	68	60	57	56	60	67	82	95	100	96
60% Exceedance	85	81	64	57	54	55	57	64	78	93	99	93
70% Exceedance	82	80	61	56	54	54	56	61	73	90	97	90
80% Exceedance	81	73	56	53	53	53	54	58	67	85	94	87
90% Exceedance	79	65	53	52	52	53	53	55	62	79	90	84
Full Simulation Period Average^a	91	86	71	63	59	58	62	69	80	92	100	93
Wet Water Years (28%)	81	76	67	54	53	54	55	59	67	82	91	85
Above Normal Years (14%)	85	80	68	57	54	54	57	63	75	90	97	91
Below Normal Years (18%)	90	83	68	62	59	58	61	70	83	95	103	95
Dry Water Years (24%)	92	84	73	68	61	60	64	73	87	98	106	98
Critical Water Years (16%)	115	118	80	77	69	68	75	85	94	100	103	100

Table F.2.6-1-7b. X2, Alt2woTUCPDeltaVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	94	92	89	87	80	75	79	83	85	88	92	93
20% Exceedance	93	92	88	84	74	71	75	80	84	86	90	92
30% Exceedance	92	91	87	79	68	66	72	79	83	85	89	92
40% Exceedance	91	89	86	73	65	65	68	77	81	84	88	91
50% Exceedance	90	86	82	69	62	62	66	75	80	83	86	90
60% Exceedance	80	85	77	64	57	59	63	71	79	81	84	81
70% Exceedance	80	85	68	59	55	56	61	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	57	62	74	79	83	80
90% Exceedance	79	78	56	53	52	53	55	59	70	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	63	67	73	79	83	86	87
Wet Water Years (28%)	79	80	75	56	54	55	58	64	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	69	77	79	83	80
Below Normal Years (18%)	90	88	73	70	66	63	67	73	80	83	86	90
Dry Water Years (24%)	91	88	77	79	68	67	71	77	82	85	89	92
Critical Water Years (16%)	94	92	85	82	77	76	80	85	88	89	92	93

Table F.2.6-1-7c. X2, Alt2woTUCPDeltaVA minus EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	-7	0	11	12	8	7	-3	-11	-13	-11	-7
20% Exceedance	-6	-2	4	12	9	7	8	0	-9	-13	-11	-7
30% Exceedance	-5	2	10	10	8	7	7	4	-7	-14	-12	-7
40% Exceedance	-2	4	12	11	6	6	6	6	-5	-13	-13	-7
50% Exceedance	1	2	14	8	5	6	7	8	-2	-13	-14	-6
60% Exceedance	-5	4	12	7	3	4	6	7	1	-12	-16	-12
70% Exceedance	-3	5	7	4	1	2	5	6	5	-10	-14	-10
80% Exceedance	-1	11	6	2	1	1	3	4	7	-6	-11	-7
90% Exceedance	0	13	3	1	0	0	2	5	8	-1	-8	-4
Full Simulation Period Average^a	-5	0	6	6	5	5	5	4	-1	-10	-13	-7
Wet Water Years (28%)	-2	5	8	2	1	2	3	5	5	-5	-9	-6
Above Normal Years (14%)	-6	2	9	5	2	2	4	6	2	-11	-15	-11
Below Normal Years (18%)	0	5	6	8	6	5	7	4	-3	-12	-17	-5
Dry Water Years (24%)	-1	3	5	11	8	7	7	4	-6	-12	-17	-6
Critical Water Years (16%)	-21	-26	5	5	8	8	5	0	-7	-11	-11	-7

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-8a. X2, EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	100	99	89	76	68	67	73	85	96	101	102	100
20% Exceedance	99	94	84	72	65	63	67	80	93	100	102	99
30% Exceedance	96	90	77	69	60	59	65	75	89	99	101	99
40% Exceedance	93	86	74	63	59	59	63	71	86	97	100	98
50% Exceedance	89	83	68	60	57	56	60	67	82	95	100	96
60% Exceedance	85	81	64	57	54	55	57	64	78	93	99	93
70% Exceedance	82	80	61	56	54	54	56	61	73	90	97	90
80% Exceedance	81	73	56	53	53	53	54	58	67	85	94	87
90% Exceedance	79	65	53	52	52	53	53	55	62	79	90	84
Full Simulation Period Average^a	91	86	71	63	59	58	62	69	80	92	100	93
Wet Water Years (28%)	81	76	67	54	53	54	55	59	67	82	91	85
Above Normal Years (14%)	85	80	68	57	54	54	57	63	75	90	97	91
Below Normal Years (18%)	90	83	68	62	59	58	61	70	83	95	103	95
Dry Water Years (24%)	92	84	73	68	61	60	64	73	87	98	106	98
Critical Water Years (16%)	115	118	80	77	69	68	75	85	94	100	103	100

Table F.2.6-1-8b. X2, Alt2woTUCPAIIVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	94	93	89	87	80	75	79	82	85	88	92	93
20% Exceedance	93	92	88	84	74	70	74	79	83	86	90	92
30% Exceedance	92	91	87	79	68	66	70	78	82	85	89	92
40% Exceedance	91	90	86	73	65	64	67	76	81	85	88	91
50% Exceedance	90	86	82	69	62	62	65	72	80	83	86	90
60% Exceedance	80	85	77	64	57	59	63	69	79	80	84	81
70% Exceedance	80	85	68	59	55	56	61	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	57	62	74	79	83	80
90% Exceedance	79	77	56	53	52	53	55	59	70	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	63	66	72	79	83	86	87
Wet Water Years (28%)	79	80	75	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	61	68	76	79	83	80
Below Normal Years (18%)	90	88	73	70	66	63	66	71	80	83	86	90
Dry Water Years (24%)	91	88	77	79	68	67	70	75	81	85	89	92
Critical Water Years (16%)	94	93	85	83	77	76	79	84	87	89	92	93

Table F.2.6-1-8c. X2, Alt2woTUCPAIIVA minus EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	-7	0	11	12	8	6	-3	-12	-13	-11	-7
20% Exceedance	-6	-2	4	12	9	7	7	-1	-10	-13	-11	-7
30% Exceedance	-5	2	10	10	8	7	5	3	-7	-14	-12	-7
40% Exceedance	-2	4	12	11	6	6	4	4	-5	-12	-13	-7
50% Exceedance	1	2	14	9	5	6	6	5	-2	-13	-14	-6
60% Exceedance	-5	4	12	7	3	4	6	5	1	-13	-16	-12
70% Exceedance	-3	5	7	4	1	2	5	5	5	-10	-14	-10
80% Exceedance	-1	11	6	2	1	1	3	4	7	-6	-11	-7
90% Exceedance	0	12	3	1	0	0	2	4	8	-1	-8	-4
Full Simulation Period Average^a	-5	0	6	6	5	5	4	3	-2	-10	-14	-7
Wet Water Years (28%)	-2	5	8	2	1	2	3	5	5	-5	-9	-6
Above Normal Years (14%)	-6	2	9	5	2	2	4	4	2	-11	-15	-11
Below Normal Years (18%)	0	5	6	8	6	5	5	2	-3	-12	-17	-5
Dry Water Years (24%)	-1	3	4	10	8	7	6	2	-6	-12	-17	-6
Critical Water Years (16%)	-22	-26	5	6	8	8	4	-1	-7	-11	-12	-7

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-9a. X2, EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	100	99	89	76	68	67	73	85	96	101	102	100
20% Exceedance	99	94	84	72	65	63	67	80	93	100	102	99
30% Exceedance	96	90	77	69	60	59	65	75	89	99	101	99
40% Exceedance	93	86	74	63	59	59	63	71	86	97	100	98
50% Exceedance	89	83	68	60	57	56	60	67	82	95	100	96
60% Exceedance	85	81	64	57	54	55	57	64	78	93	99	93
70% Exceedance	82	80	61	56	54	54	56	61	73	90	97	90
80% Exceedance	81	73	56	53	53	53	54	58	67	85	94	87
90% Exceedance	79	65	53	52	52	53	53	55	62	79	90	84
Full Simulation Period Average^a	91	86	71	63	59	58	62	69	80	92	100	93
Wet Water Years (28%)	81	76	67	54	53	54	55	59	67	82	91	85
Above Normal Years (14%)	85	80	68	57	54	54	57	63	75	90	97	91
Below Normal Years (18%)	90	83	68	62	59	58	61	70	83	95	103	95
Dry Water Years (24%)	92	84	73	68	61	60	64	73	87	98	106	98
Critical Water Years (16%)	115	118	80	77	69	68	75	85	94	100	103	100

Table F.2.6-1-9b. X2, Alt2wTUCPwoVA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	90	86	78	79	81	86	91	92	93	93
20% Exceedance	93	92	89	83	74	73	78	80	83	87	90	92
30% Exceedance	92	91	87	79	67	67	73	80	83	85	90	92
40% Exceedance	91	90	86	73	65	65	69	78	82	84	88	91
50% Exceedance	90	86	82	68	62	63	67	75	80	83	86	90
60% Exceedance	80	85	77	64	57	59	64	71	79	81	84	81
70% Exceedance	80	85	68	59	55	56	62	67	78	80	83	80
80% Exceedance	79	83	63	55	53	54	58	62	74	79	83	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	80
Full Simulation Period Average^a	86	86	77	69	63	64	68	73	79	83	87	87
Wet Water Years (28%)	79	80	74	56	54	55	58	64	72	78	82	80
Above Normal Years (14%)	79	83	77	63	57	57	62	70	77	80	83	80
Below Normal Years (18%)	90	88	73	70	65	64	68	74	80	83	86	90
Dry Water Years (24%)	91	88	78	79	68	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	81	76	77	83	87	90	92	93	93

Table F.2.6-1-9c. X2, Alt2wTUCPwoVA minus EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-7	-7	0	10	10	11	8	1	-5	-9	-10	-7
20% Exceedance	-6	-2	5	12	9	10	11	0	-10	-13	-11	-7
30% Exceedance	-5	2	10	11	7	7	8	5	-7	-14	-11	-7
40% Exceedance	-2	4	12	10	6	6	7	7	-5	-13	-13	-7
50% Exceedance	1	2	14	8	5	7	7	8	-2	-13	-14	-6
60% Exceedance	-5	4	12	7	3	4	7	7	1	-12	-16	-12
70% Exceedance	-3	5	7	4	1	2	6	6	5	-10	-14	-9
80% Exceedance	-1	11	6	2	1	1	4	5	7	-6	-11	-7
90% Exceedance	0	13	3	1	0	0	2	4	8	-1	-7	-4
Full Simulation Period Average^a	-5	0	6	6	5	5	6	4	-1	-9	-13	-7
Wet Water Years (28%)	-2	5	7	2	1	2	3	5	5	-5	-9	-6
Above Normal Years (14%)	-6	2	9	5	2	2	5	6	2	-11	-14	-11
Below Normal Years (18%)	0	5	6	8	6	6	8	4	-3	-12	-17	-5
Dry Water Years (24%)	-1	3	5	11	7	8	8	4	-6	-12	-17	-6
Critical Water Years (16%)	-22	-25	5	4	7	10	8	2	-5	-8	-10	-7

^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-10a. X2, EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	100	99	89	76	68	67	73	85	96	101	102	100
20% Exceedance	99	94	84	72	65	63	67	80	93	100	102	99
30% Exceedance	96	90	77	69	60	59	65	75	89	99	101	99
40% Exceedance	93	86	74	63	59	59	63	71	86	97	100	98
50% Exceedance	89	83	68	60	57	56	60	67	82	95	100	96
60% Exceedance	85	81	64	57	54	55	57	64	78	93	99	93
70% Exceedance	82	80	61	56	54	54	56	61	73	90	97	90
80% Exceedance	81	73	56	53	53	53	54	58	67	85	94	87
90% Exceedance	79	65	53	52	52	53	53	55	62	79	90	84
Full Simulation Period Average^a	91	86	71	63	59	58	62	69	80	92	100	93
Wet Water Years (28%)	81	76	67	54	53	54	55	59	67	82	91	85
Above Normal Years (14%)	85	80	68	57	54	54	57	63	75	90	97	91
Below Normal Years (18%)	90	83	68	62	59	58	61	70	83	95	103	95
Dry Water Years (24%)	92	84	73	68	61	60	64	73	87	98	106	98
Critical Water Years (16%)	115	118	80	77	69	68	75	85	94	100	103	100

Table F.2.6-1-10b. X2, NAA, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	93	93	89	87	80	78	83	87	90	91	93	93
20% Exceedance	93	92	88	85	75	73	78	80	83	86	90	92
30% Exceedance	92	91	87	80	68	67	72	78	82	85	89	92
40% Exceedance	91	90	86	73	65	65	69	77	81	84	88	91
50% Exceedance	90	86	83	68	62	63	66	73	80	83	86	89
60% Exceedance	80	85	76	64	58	59	64	70	79	81	83	81
70% Exceedance	80	85	68	59	55	56	61	67	78	79	83	80
80% Exceedance	79	84	63	55	53	54	57	62	74	79	82	80
90% Exceedance	79	78	56	53	52	53	55	59	69	78	82	79
Full Simulation Period Average^a	86	86	77	69	64	64	68	72	79	83	86	86
Wet Water Years (28%)	79	80	74	56	54	55	58	63	72	78	82	79
Above Normal Years (14%)	79	83	76	63	57	57	62	68	77	79	83	80
Below Normal Years (18%)	90	89	74	70	66	64	68	72	80	83	86	90
Dry Water Years (24%)	91	88	78	79	69	68	72	77	82	85	89	92
Critical Water Years (16%)	94	93	85	83	77	77	84	87	90	92	93	93

Table F.2.6-1-10c. X2, NAA minus EXP1, Monthly Position (KM)

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10% Exceedance	-6	-6	0	11	12	11	10	1	-6	-9	-10	-7
20% Exceedance	-6	-2	4	13	10	10	11	0	-10	-14	-12	-7
30% Exceedance	-5	2	10	11	8	7	7	3	-7	-14	-12	-7
40% Exceedance	-1	4	13	10	6	6	6	6	-5	-13	-12	-7
50% Exceedance	1	3	15	8	5	7	7	6	-2	-13	-14	-7
60% Exceedance	-5	4	11	7	3	4	6	6	1	-12	-16	-12
70% Exceedance	-3	5	7	4	1	2	6	5	5	-10	-14	-10
80% Exceedance	-2	11	6	2	1	1	3	5	7	-6	-11	-8
90% Exceedance	0	13	3	1	0	0	2	4	8	-1	-8	-5
Full Simulation Period Average^a	-5	0	6	6	5	5	6	3	-1	-9	-13	-7
Wet Water Years (28%)	-2	5	7	2	1	2	3	4	5	-5	-9	-6
Above Normal Years (14%)	-6	3	9	6	2	2	5	5	2	-11	-15	-12
Below Normal Years (18%)	0	6	6	8	6	6	7	2	-3	-12	-17	-5
Dry Water Years (24%)	-1	3	5	11	8	8	7	3	-6	-12	-17	-6
Critical Water Years (16%)	-22	-25	5	5	8	10	8	2	-4	-8	-10	-7

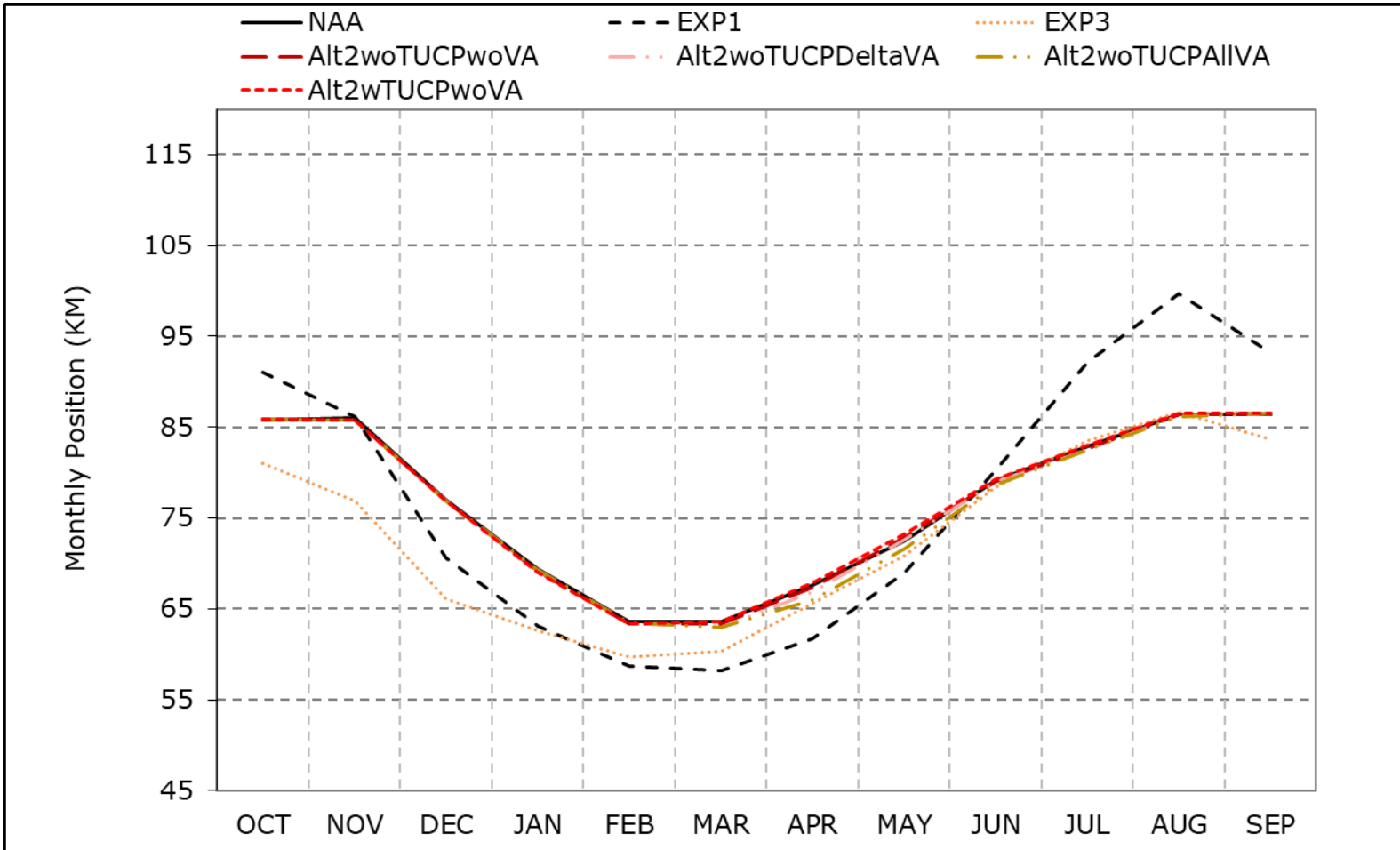
^a Based on the 100-year simulation period.

*All scenarios are simulated at 2022 Median climate condition and 15 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 F.2.6-1-1. X2, Long-Term Average Position

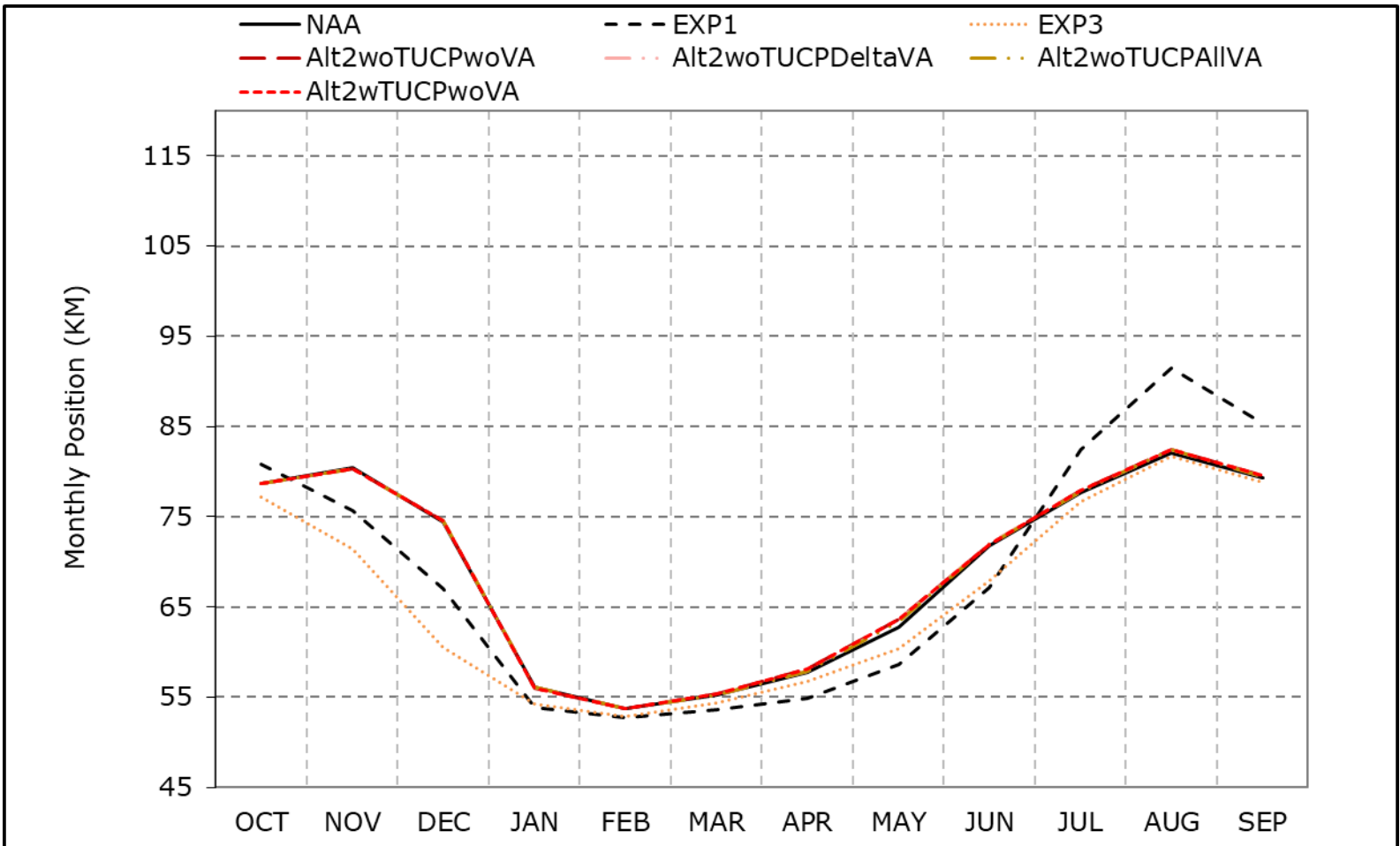


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-2. X2, Wet Year Average Position

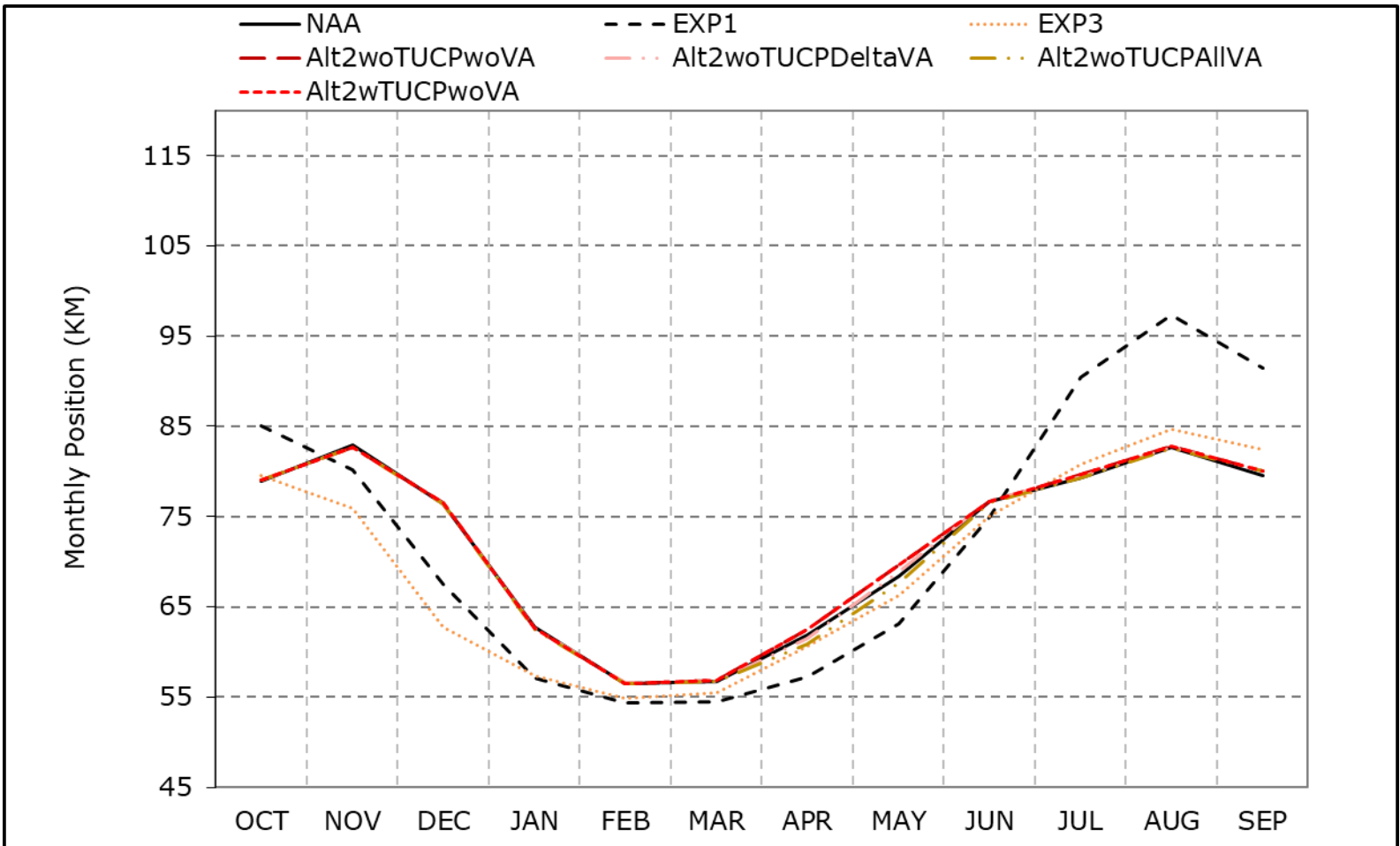


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-3. X2, Above Normal Year Average Position

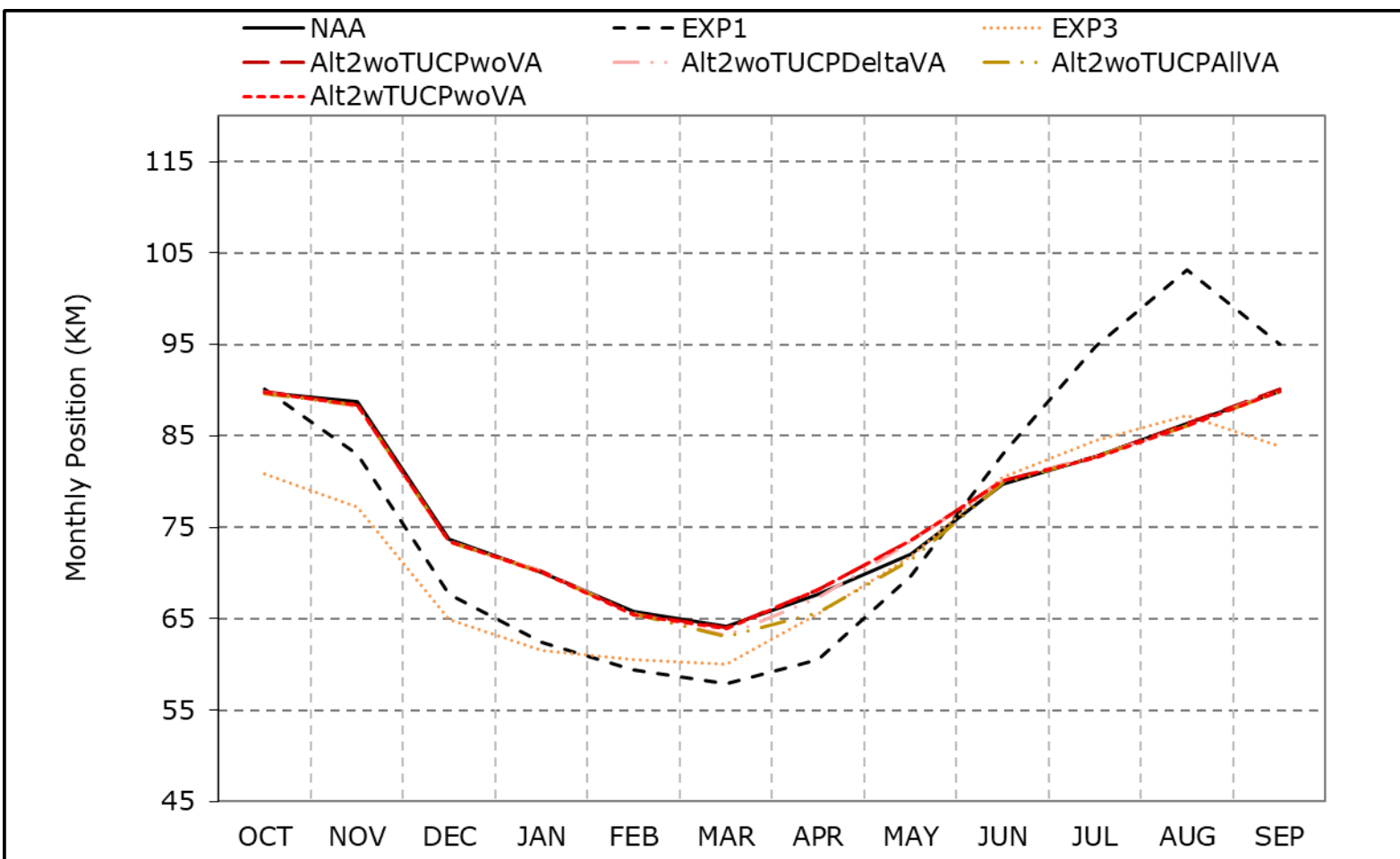


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-4. X2, Below Normal Year Average Position

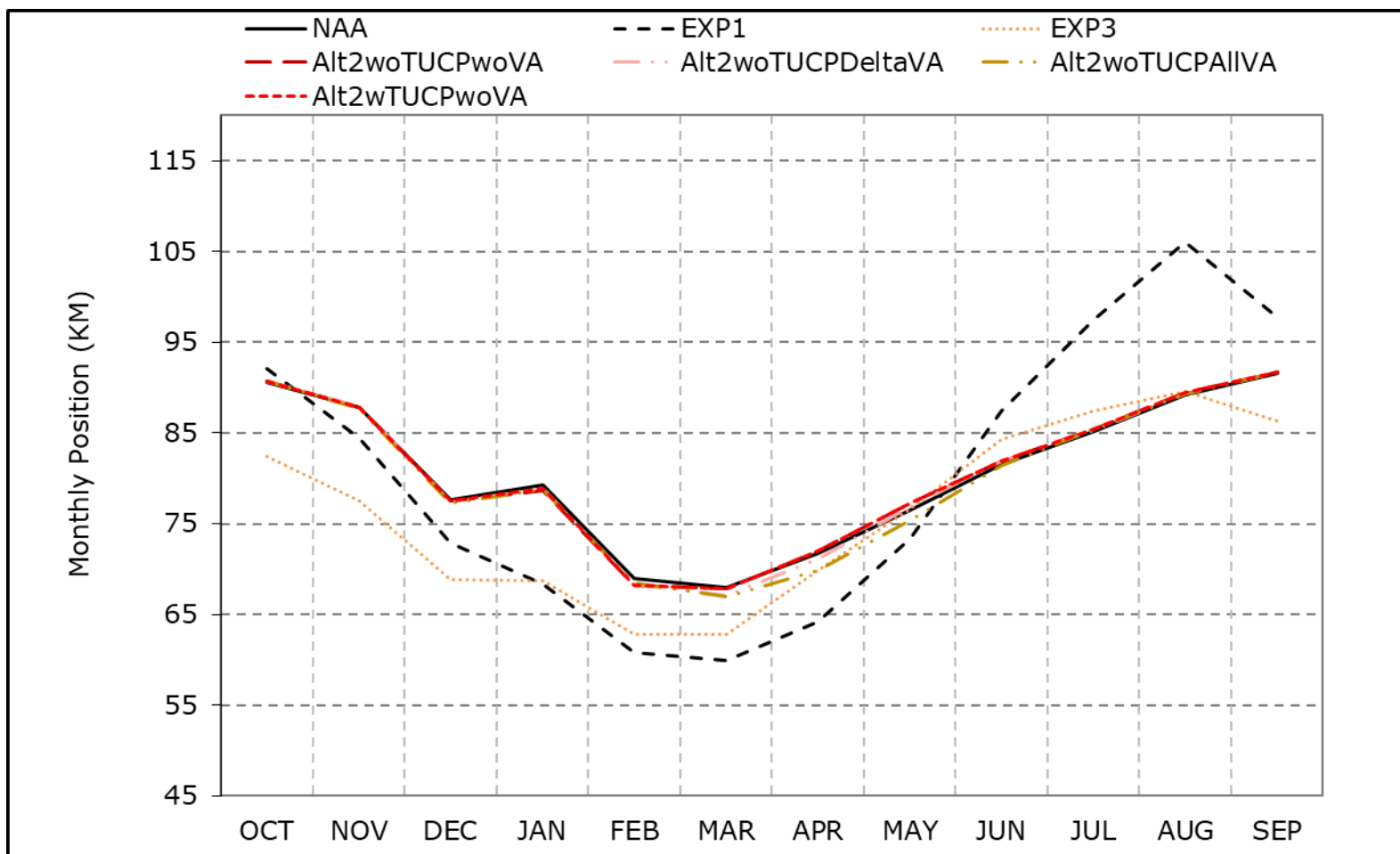


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-5. X2, Dry Year Average Position

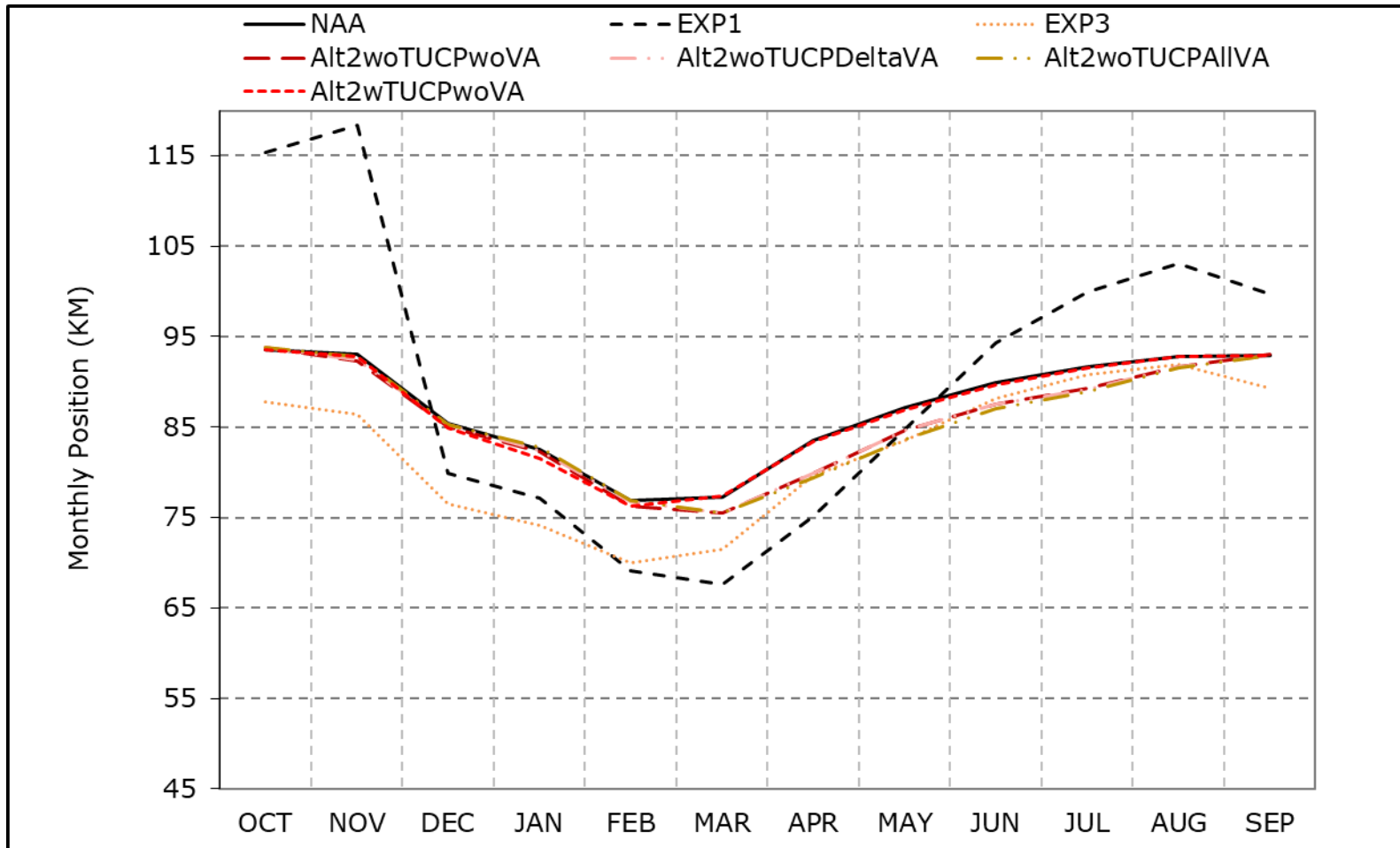


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-6. X2, Critical Year Average Position

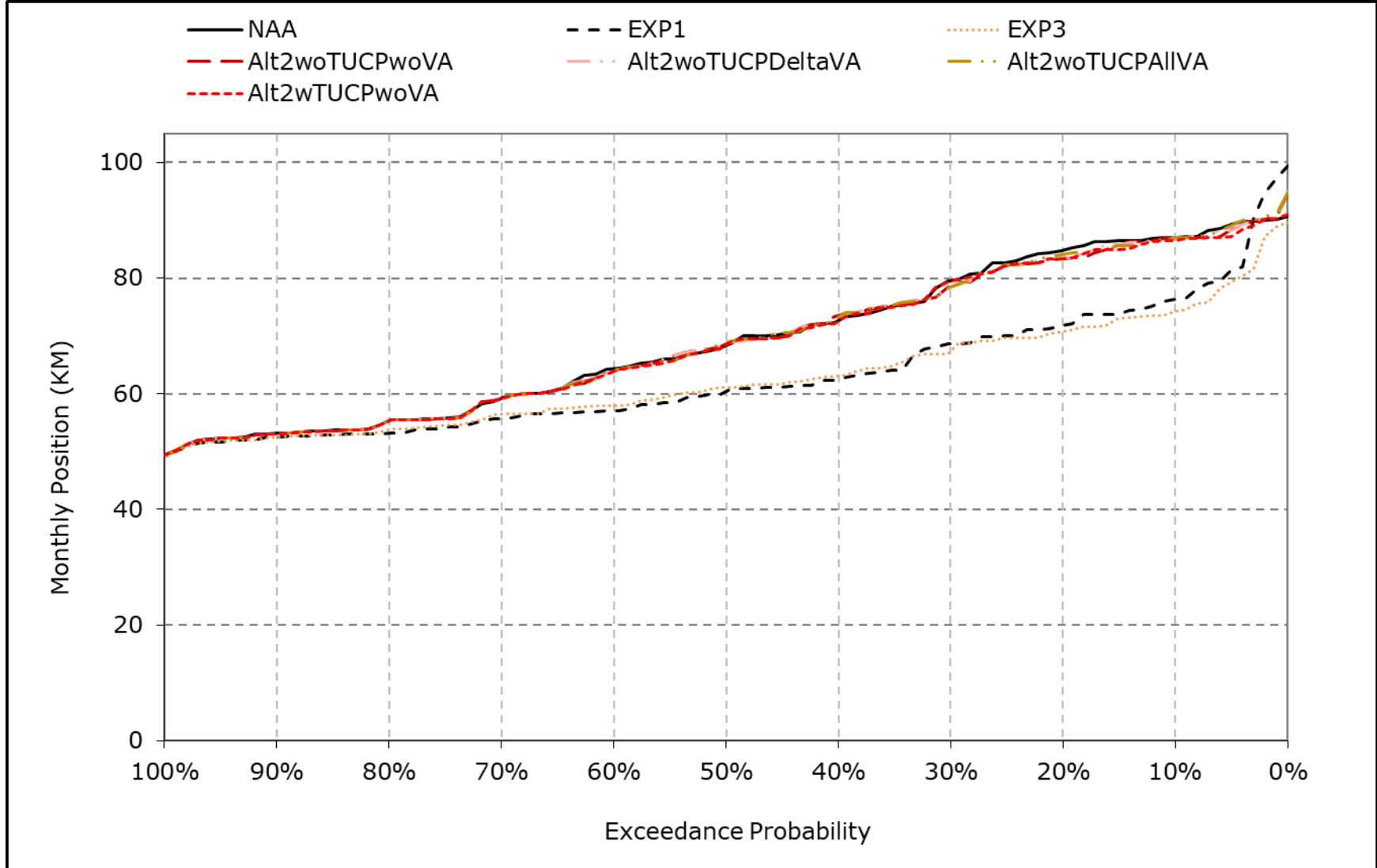


*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

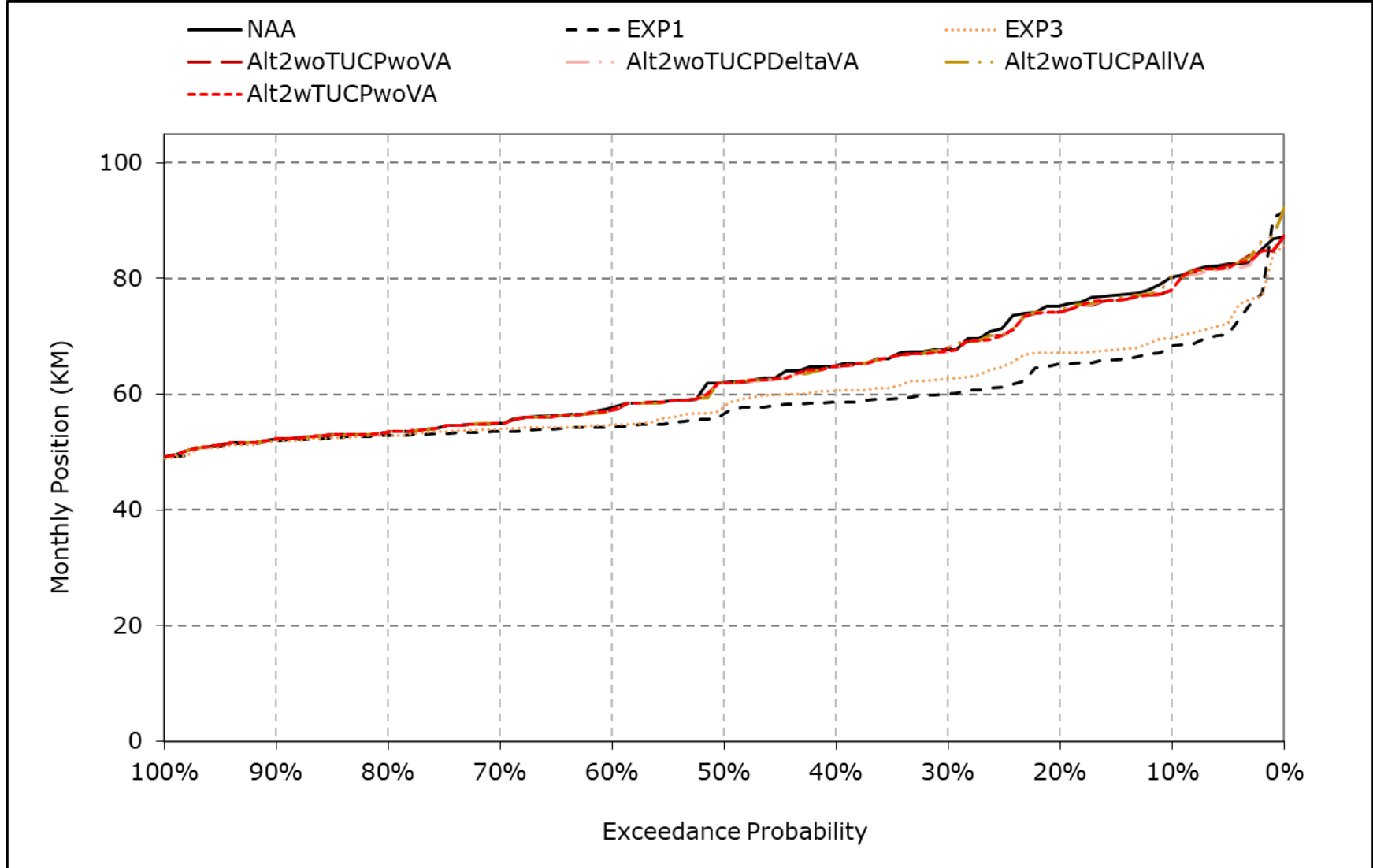
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-7. X2, January Position



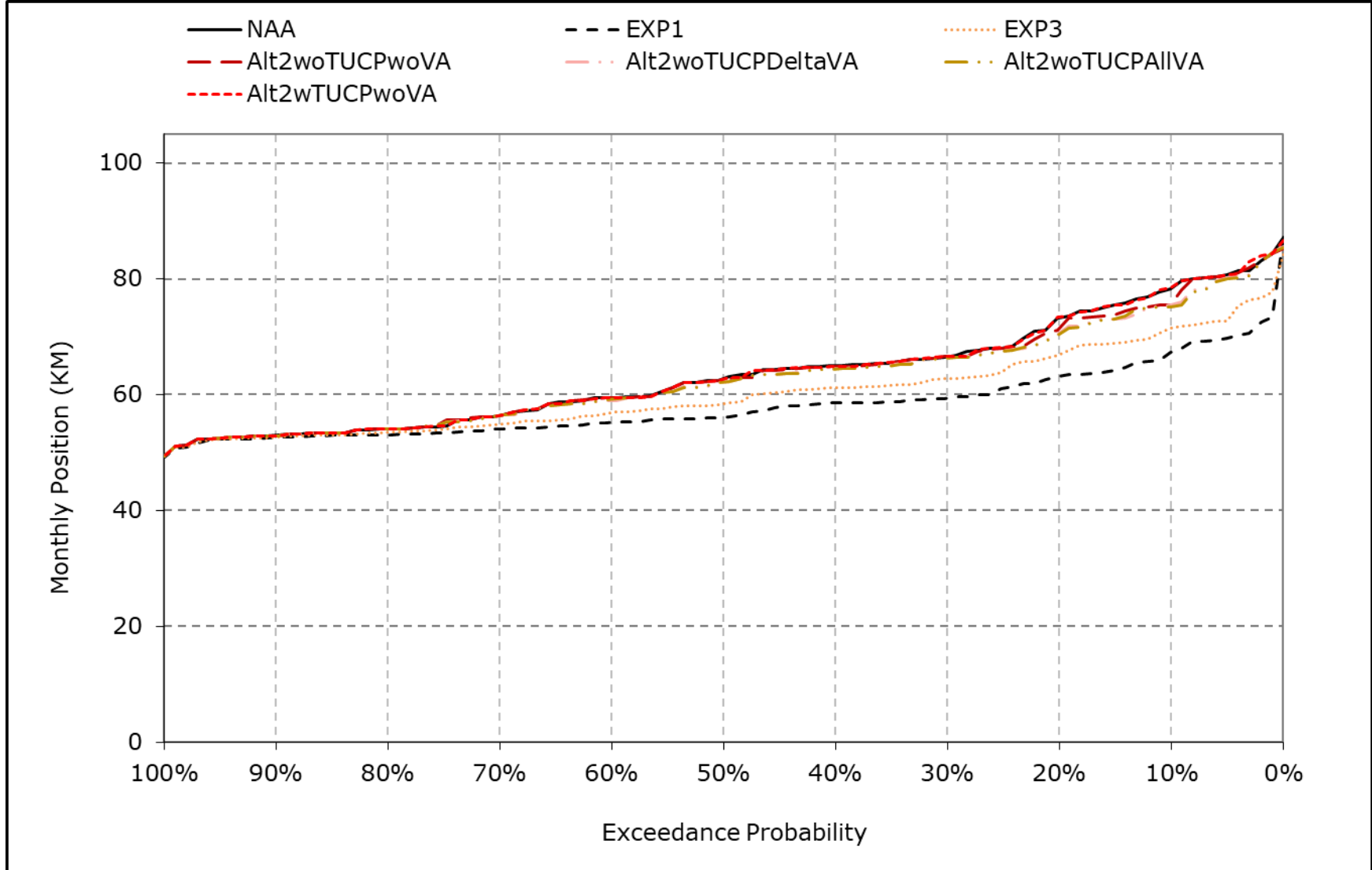
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-8. X2, February Position



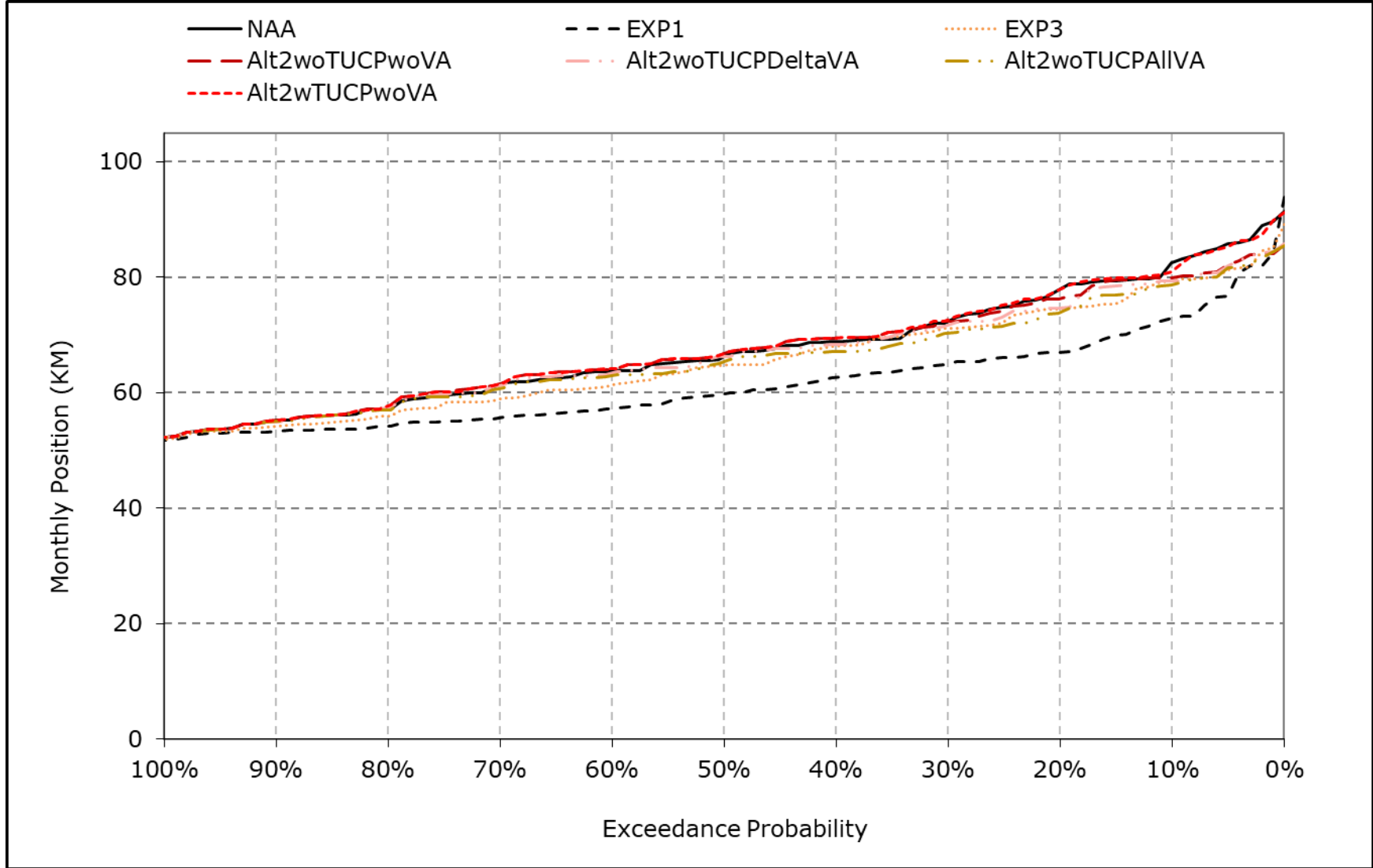
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-9. X2, March Position



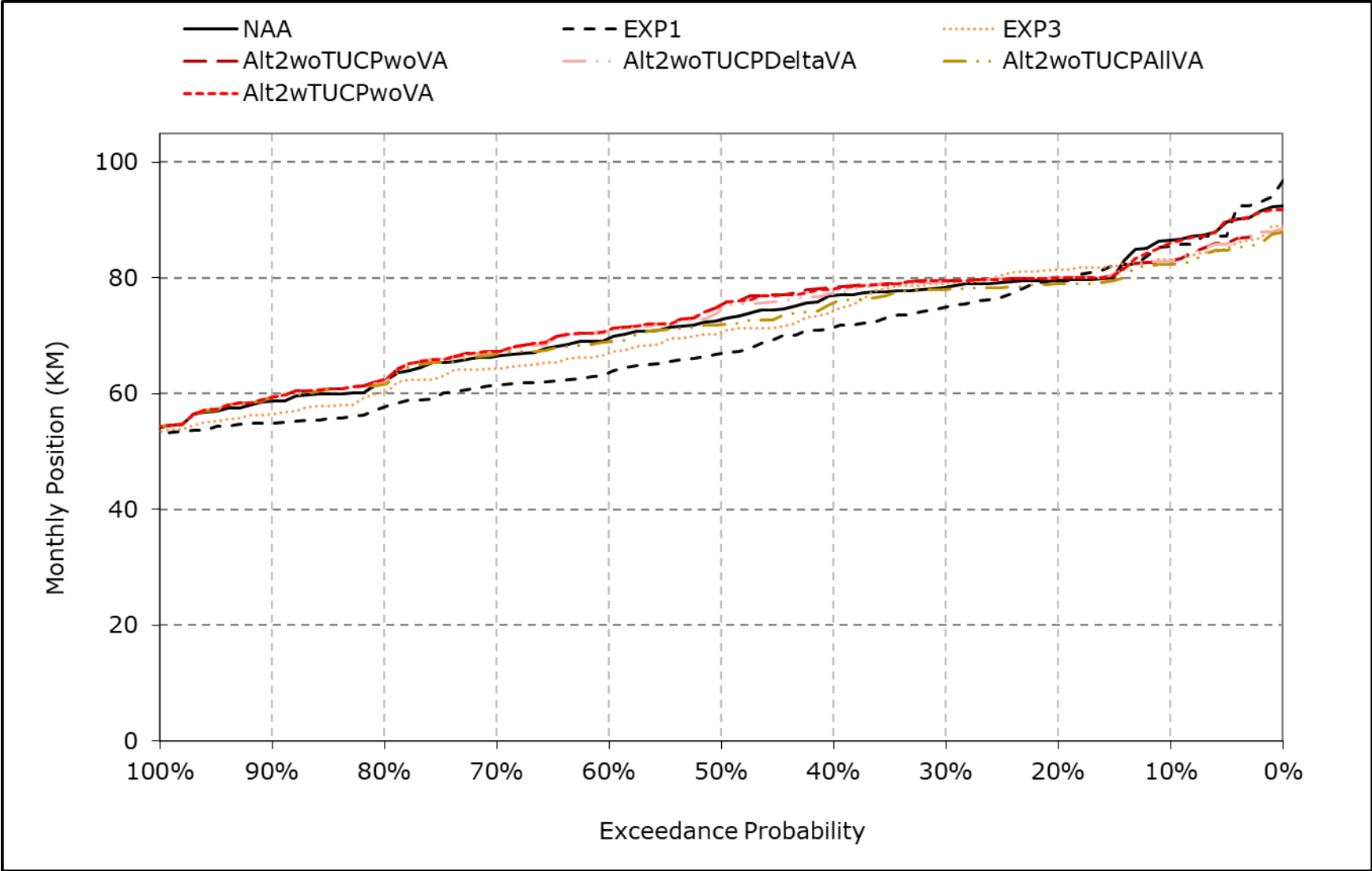
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-10. X2, April Position



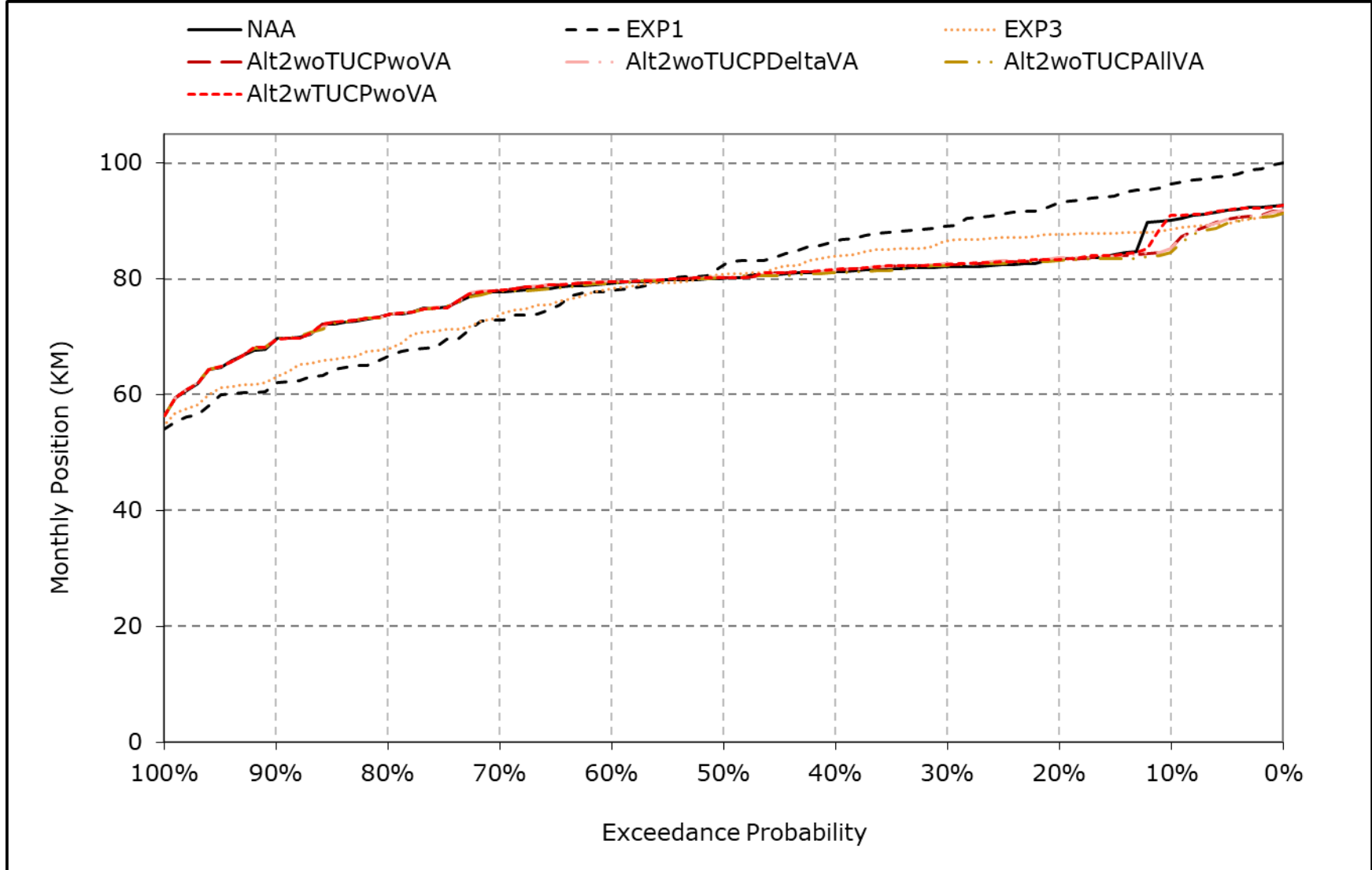
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-11. X2, May Position



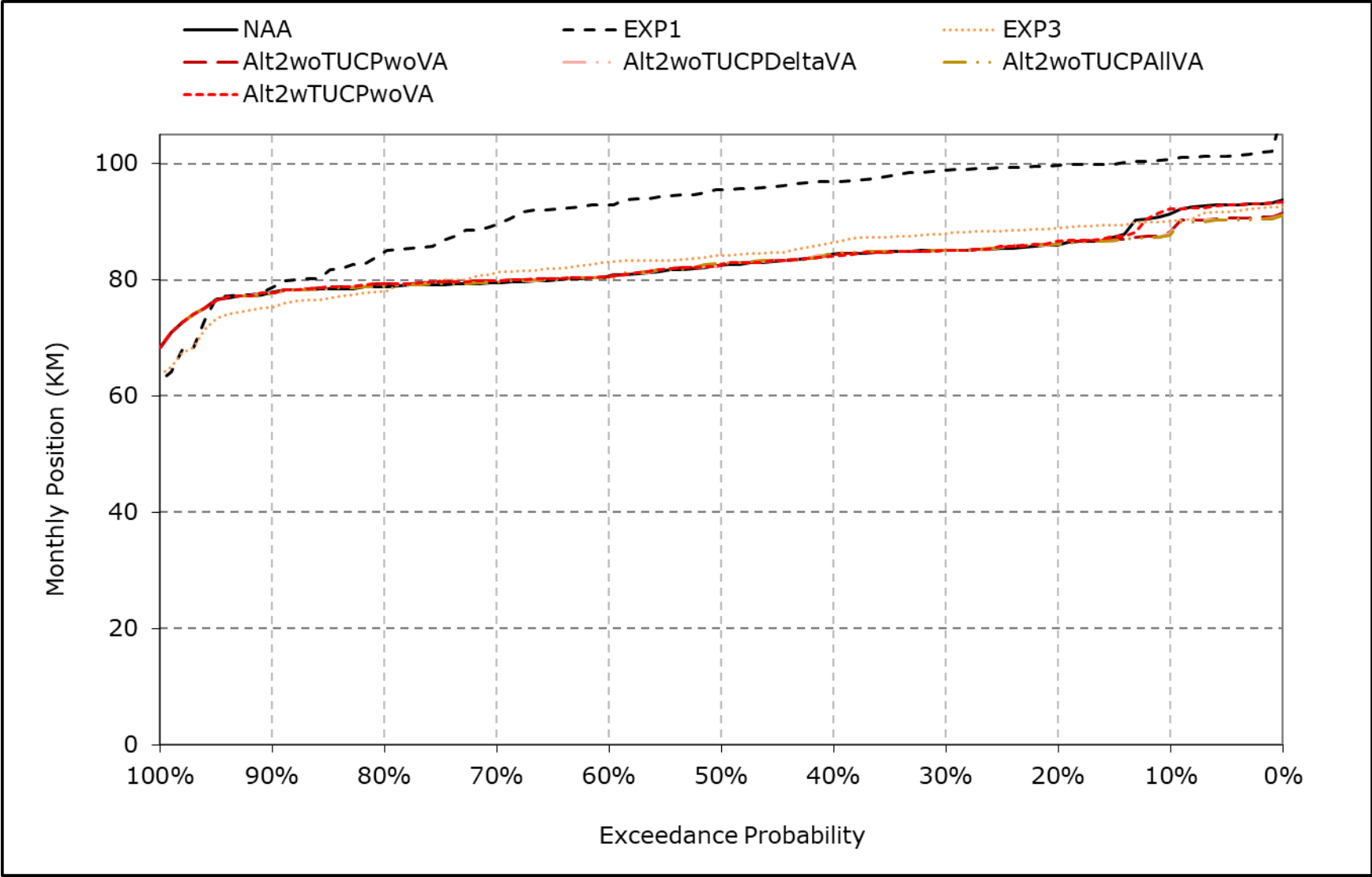
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-12. X2, June Position



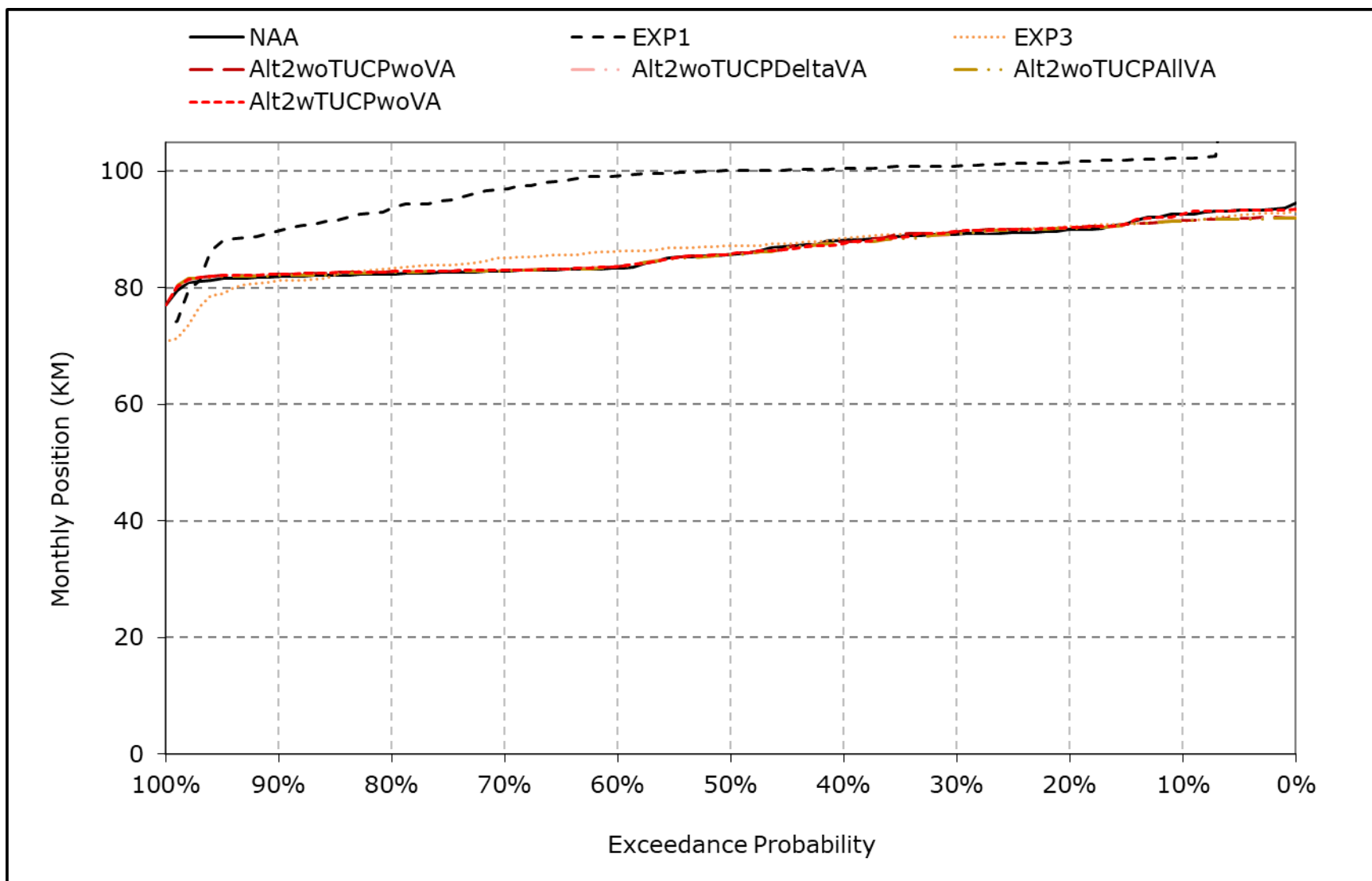
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-13. X2, July Position



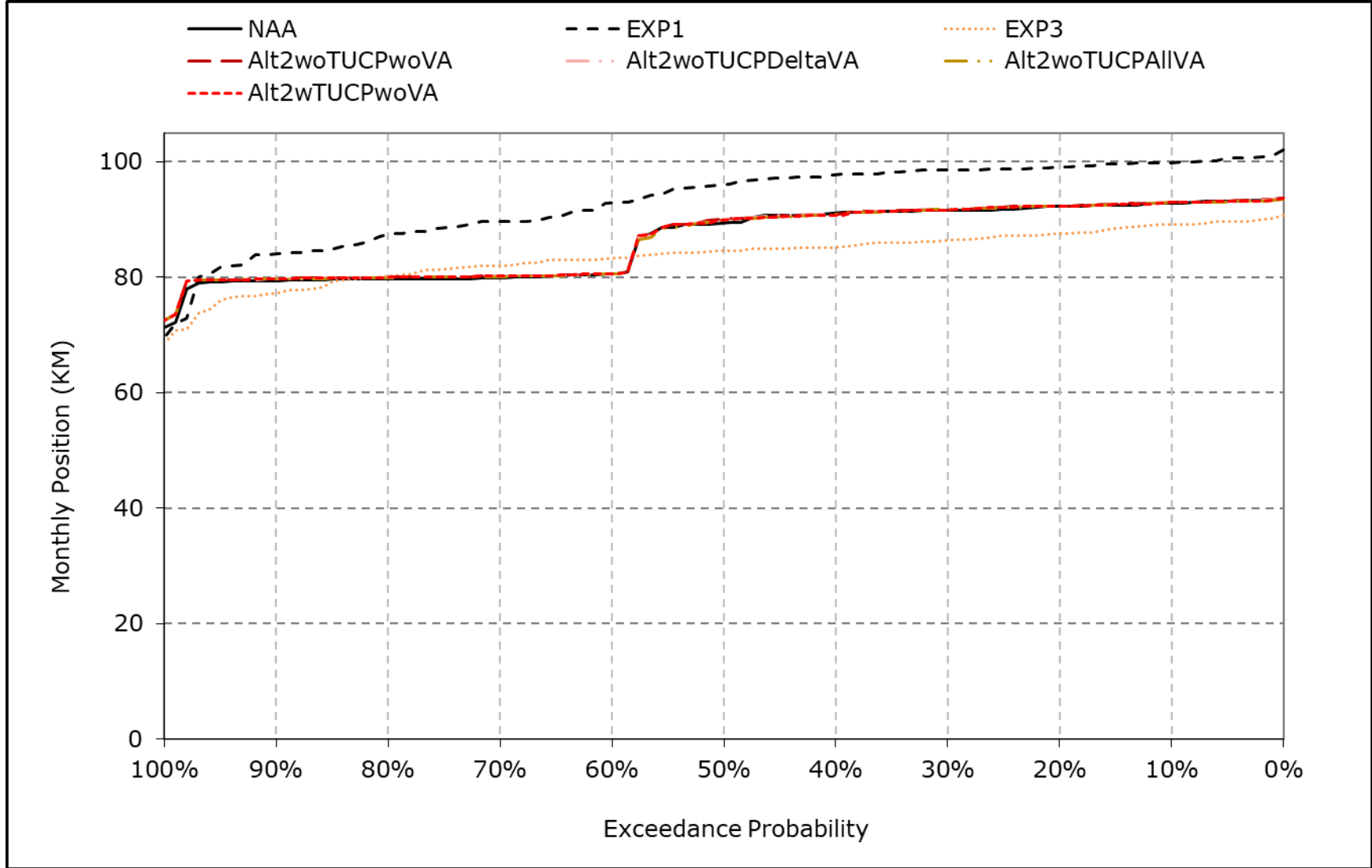
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-14. X2, August Position



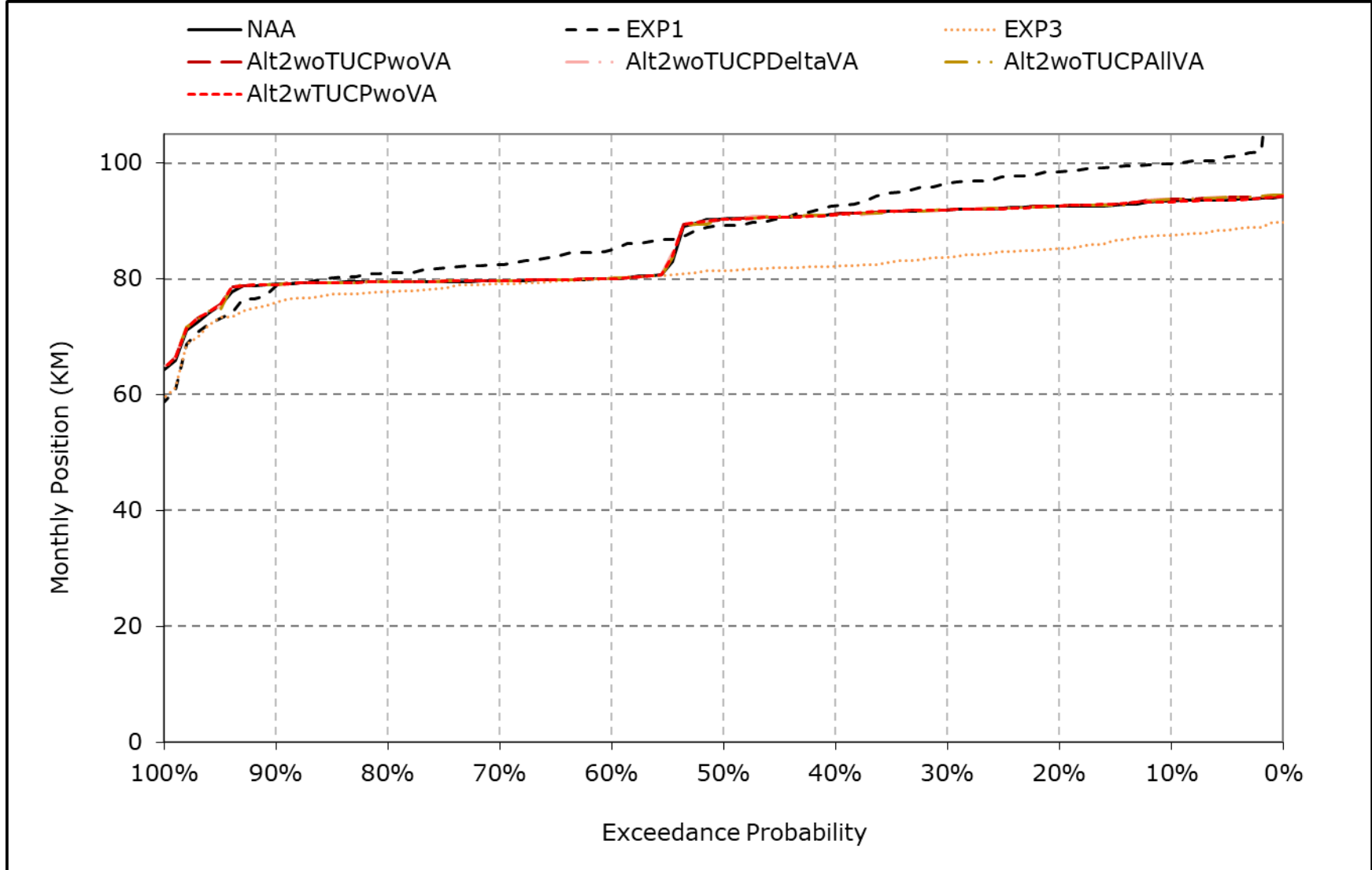
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-15. X2, September Position



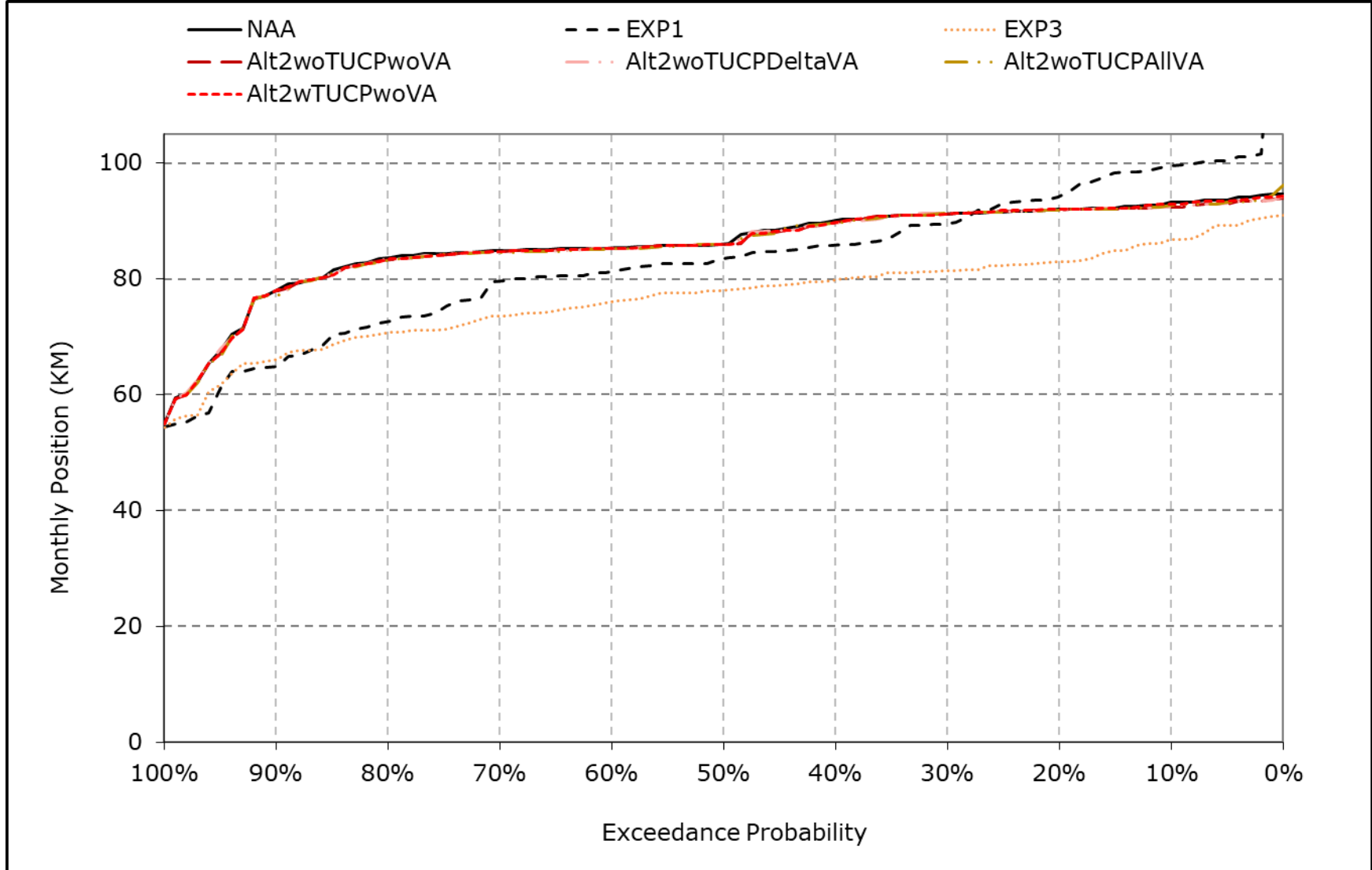
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-16. X2, October Position



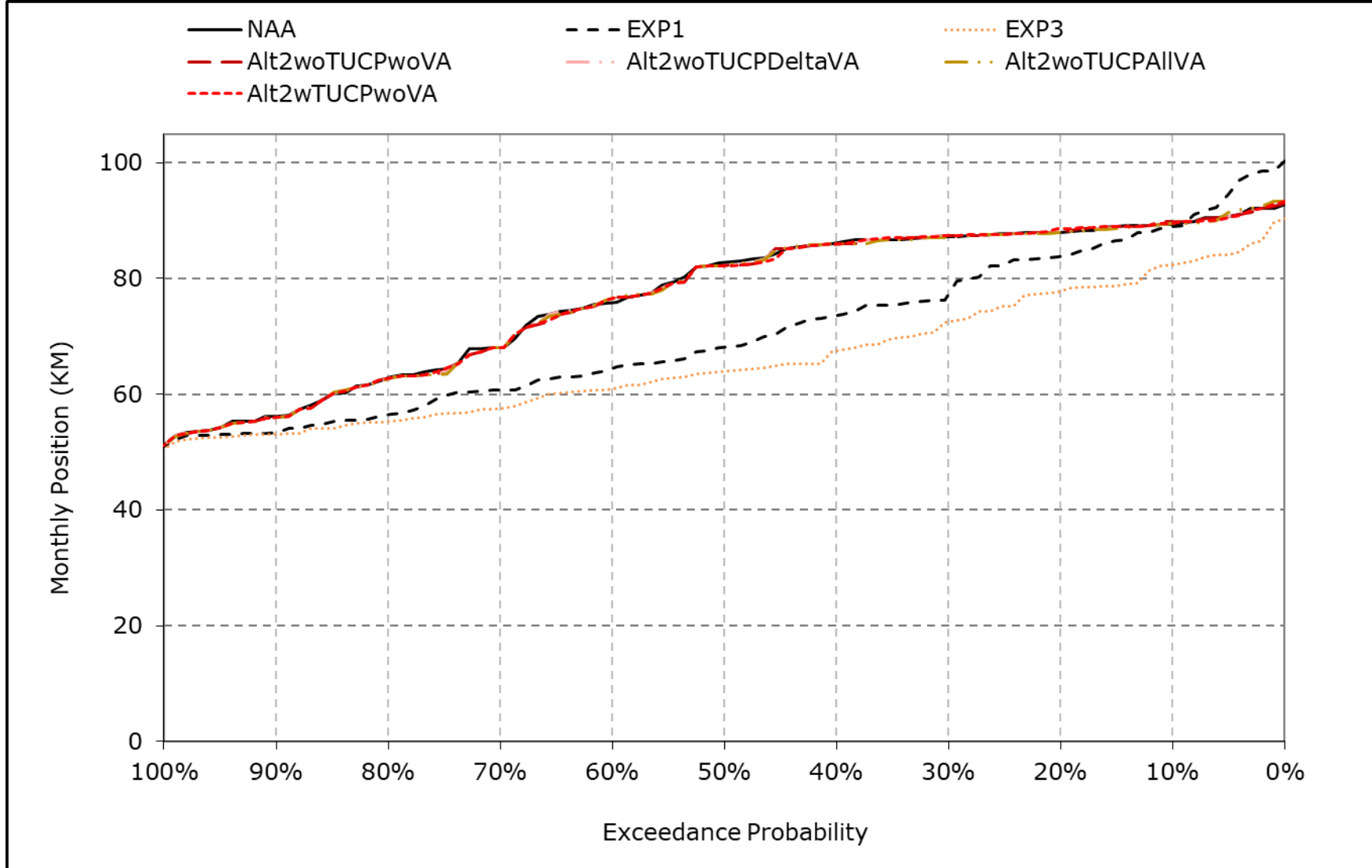
*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-17. X2, November Position



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

Figure F.2.6-1-18. X2, December Position



*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.