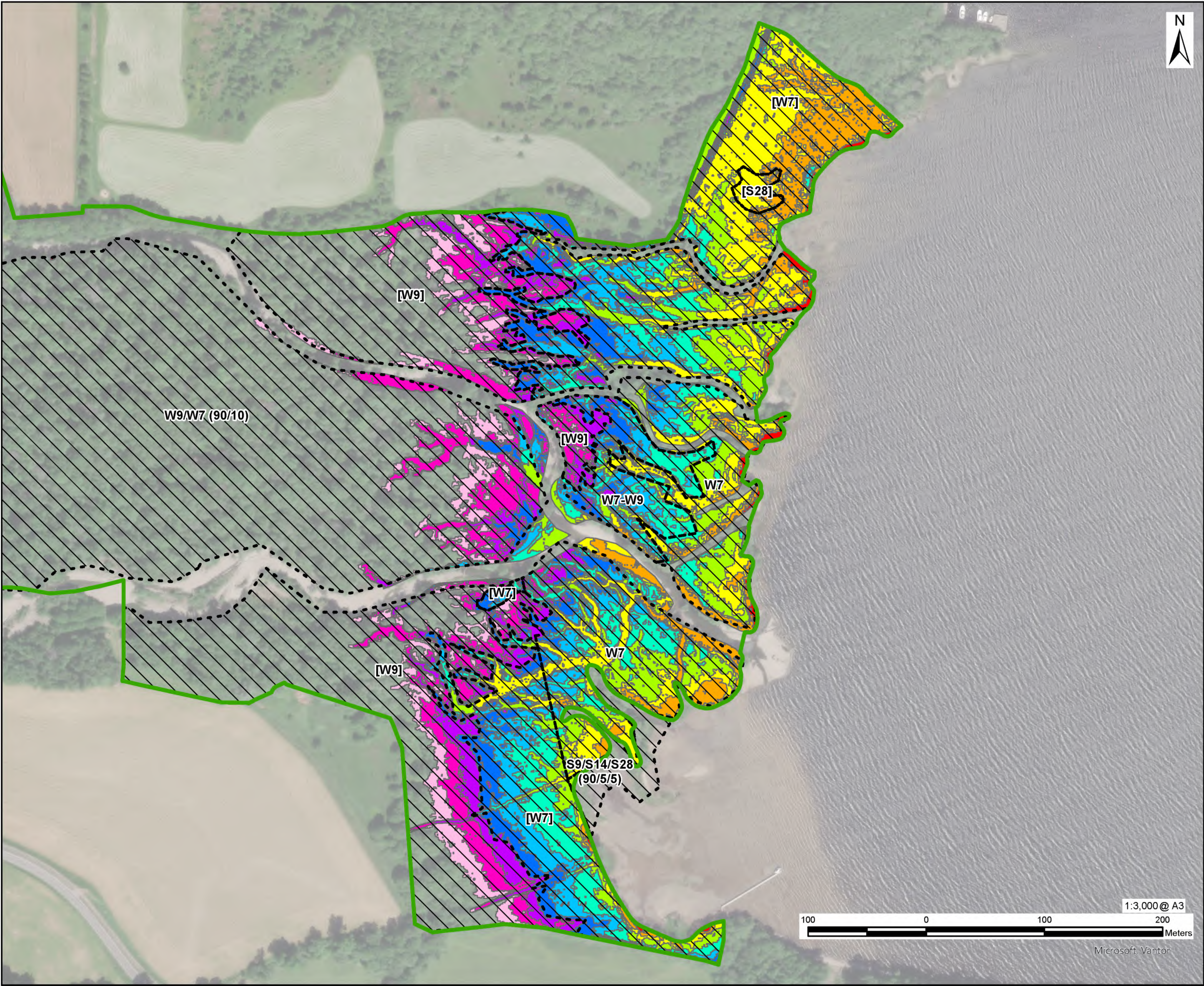


Drying Event Analysis
LnC + LK + GEE
Seasonal Variable Weir

Spring
(Mar-May)



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PROJECT

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CLIENT

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CONSULTANT

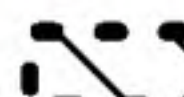
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LEGEND

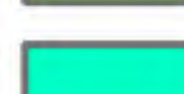
SAC boundary

 SAC boundary

NVC (labelled)

 NVC (labelled)

Overlapped Predicted Water Areas at increasing heights (m), from median summer loch level of 15.7 m

-  15.7
-  15.9
-  16.1
-  16.3
-  16.5
-  16.7
-  16.9
-  17.1
-  17.3
-  17.5

NOTES

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NVC types without square brackets indicates areas accessed in summer 2024. Square brackets indicates that NVC type has been derived from information from site visits in late 2025 / early 2026, combined with LiDAR data in comparison to the W7/W9 seen in summer 2024.

ISSUE PURPOSE

FOR INFORMATION

PROJECT NUMBER

60719875

FIGURE TITLE

Predicted Water Areas overlaid with NVC for the relevant parts of Urquhart Bay Wood

FIGURE NUMBER

Figure 1

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100 0 100 200 Meters

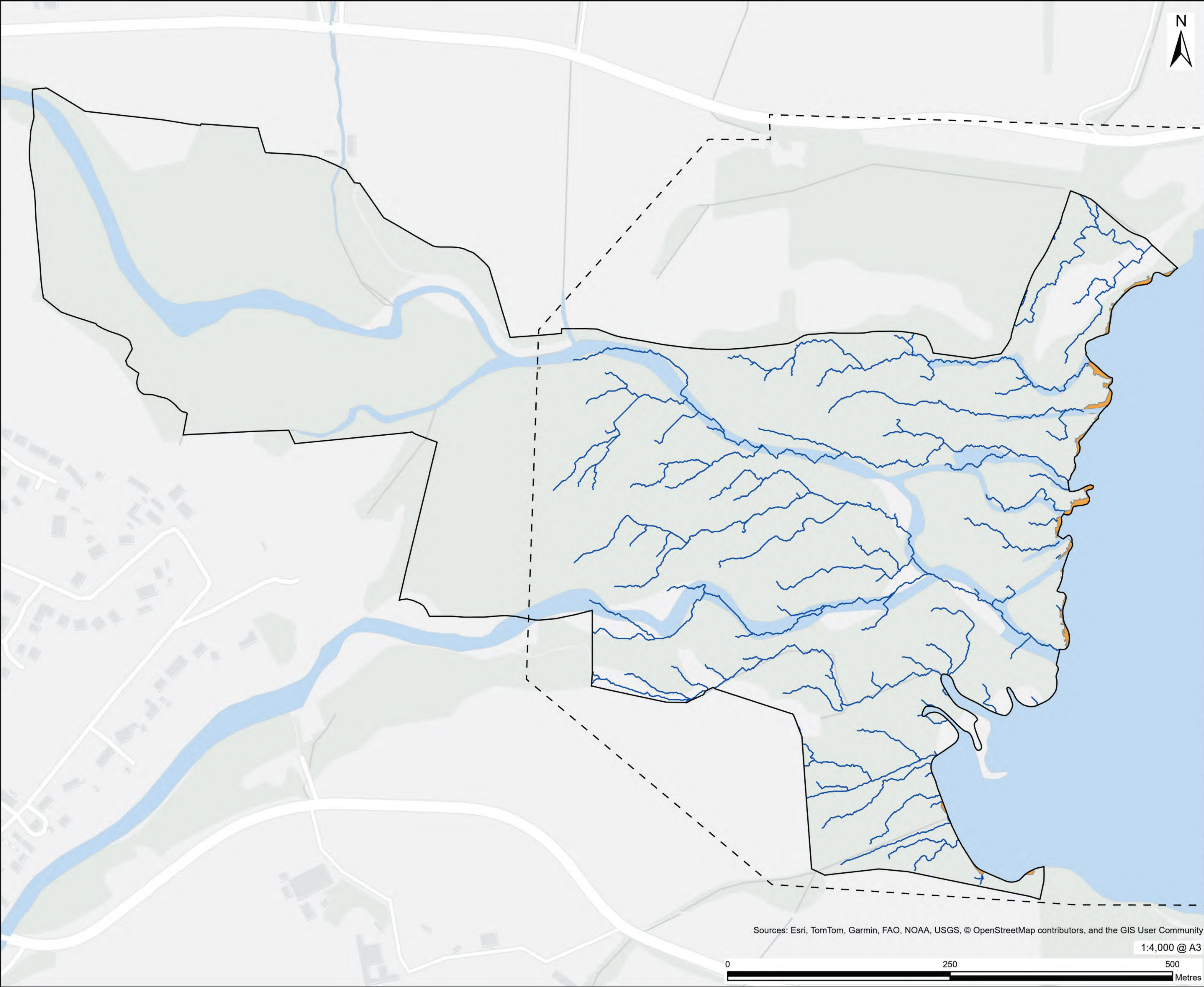
Microsoft, Vantor

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.7	W7; S9 / S14 / S28	0.13	0.30	0.13	0.30
15.9	W7; S28	1.2	2.60	1.33	2.90
16.1	W7; S28	2.3	5.00	3.63	7.90
16.3	W7	1.95	4.20	5.58	12.10
16.5	W7	1.91	4.10	7.49	16.20
16.7	W7; W7-W9 (intermediate)	1.57	3.40	9.06	19.60
16.9	W7; W7-W9 (intermediate)	1.38	3.00	10.44	22.60
17.1	W7 / W9 (transition)	1.24	2.70	11.68	25.30
17.3	W9 dominant	1.52	3.30	13.2	28.60
17.5	W9 dominant	1.18	2.50	14.38	31.10

Drying Event

Level Threshold = 15.70 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.7	W7; S9 / S14 / S28	0.13	0.30	0.13	0.30



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CLIENT

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CONSULTANT

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LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse
- Predicted Water Area (Meters Above Datum)
 - 15.7m - 0.14ha

NOTES

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ISSUE PURPOSE

FINAL

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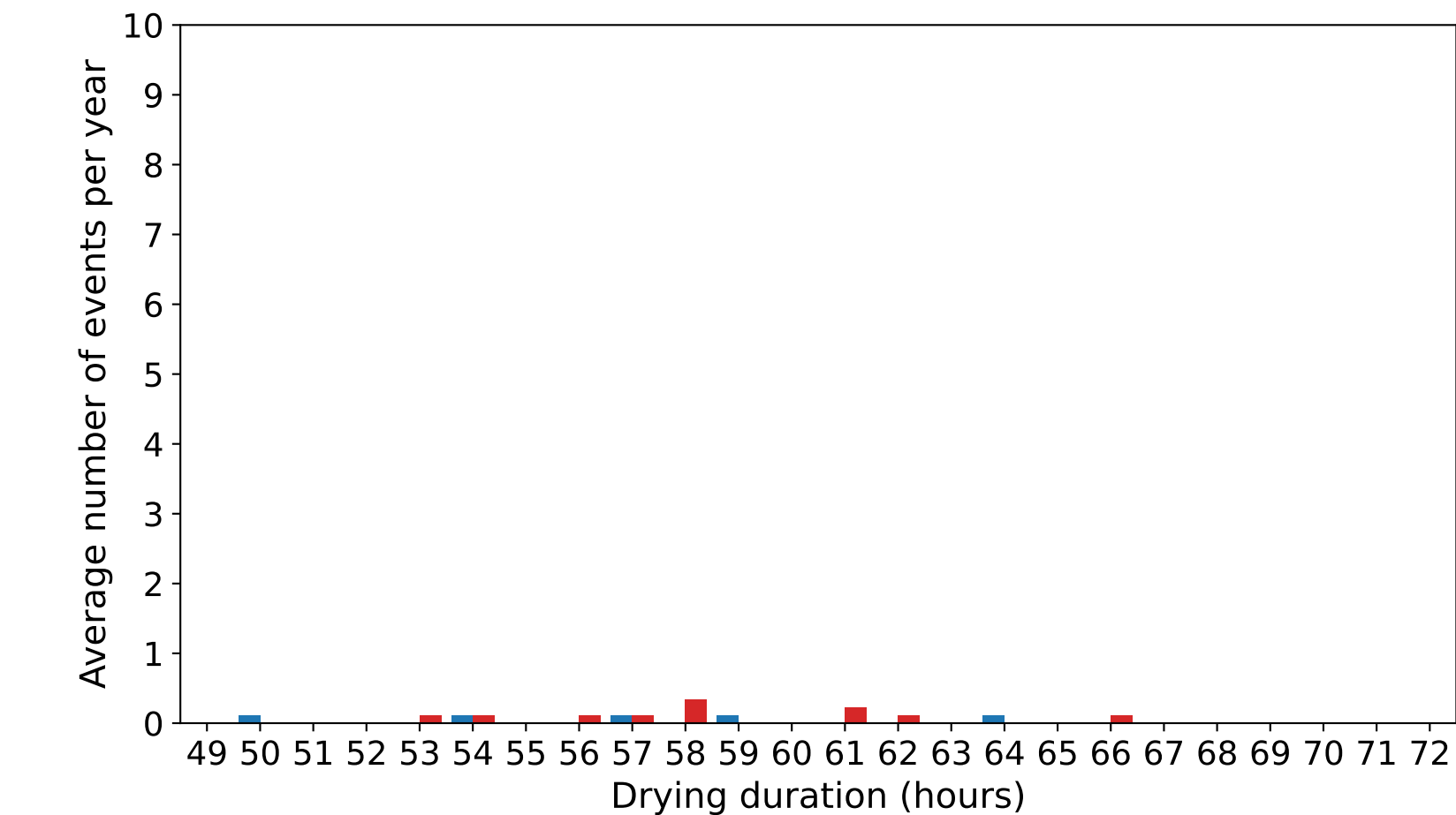
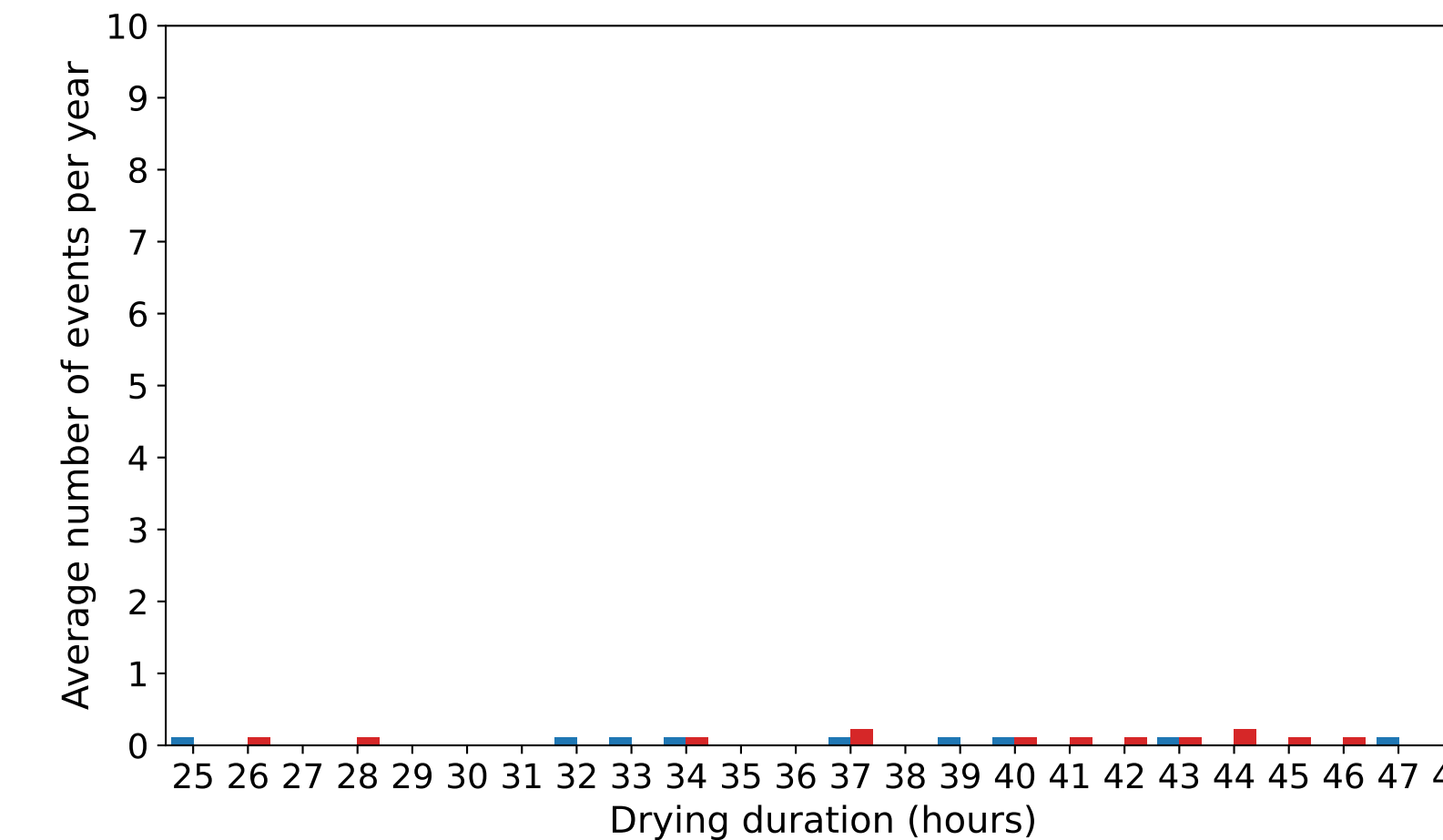
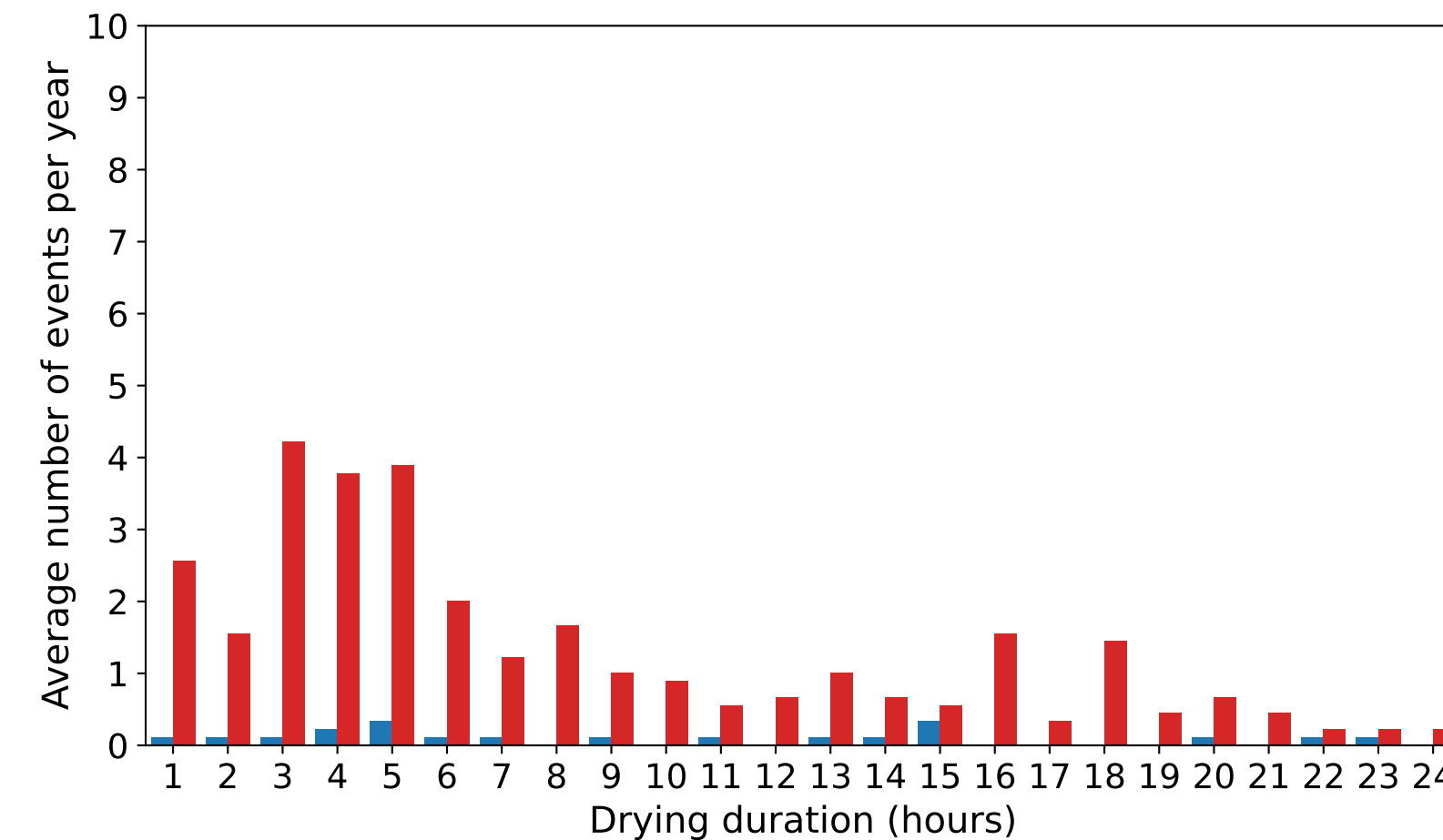
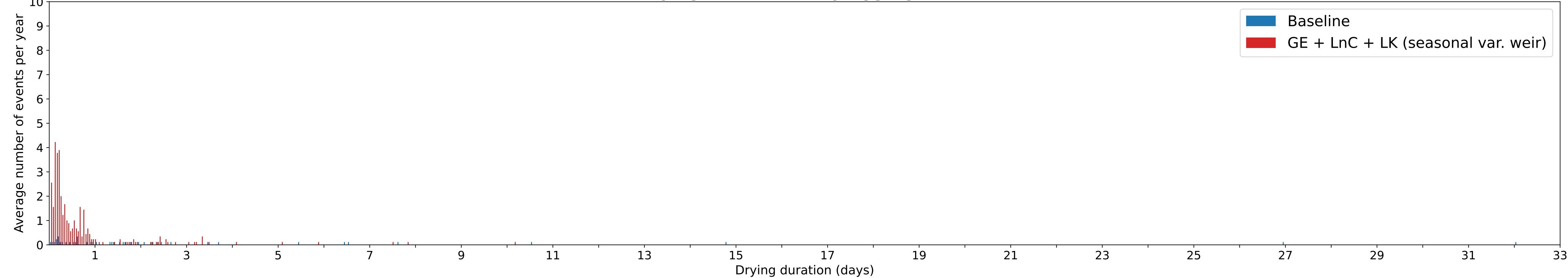
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.1

Spring - Level [15.70] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Spring - Level [15.70] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	3 hr	9 hr	32 hr (1.3 days)	59 hr (2.5 days)	355 hr (14.8 days)
GE + LnC + LK (seasonal var. weir)	1 hr	4 hr	6 hr	16 hr	61 hr (2.5 days)

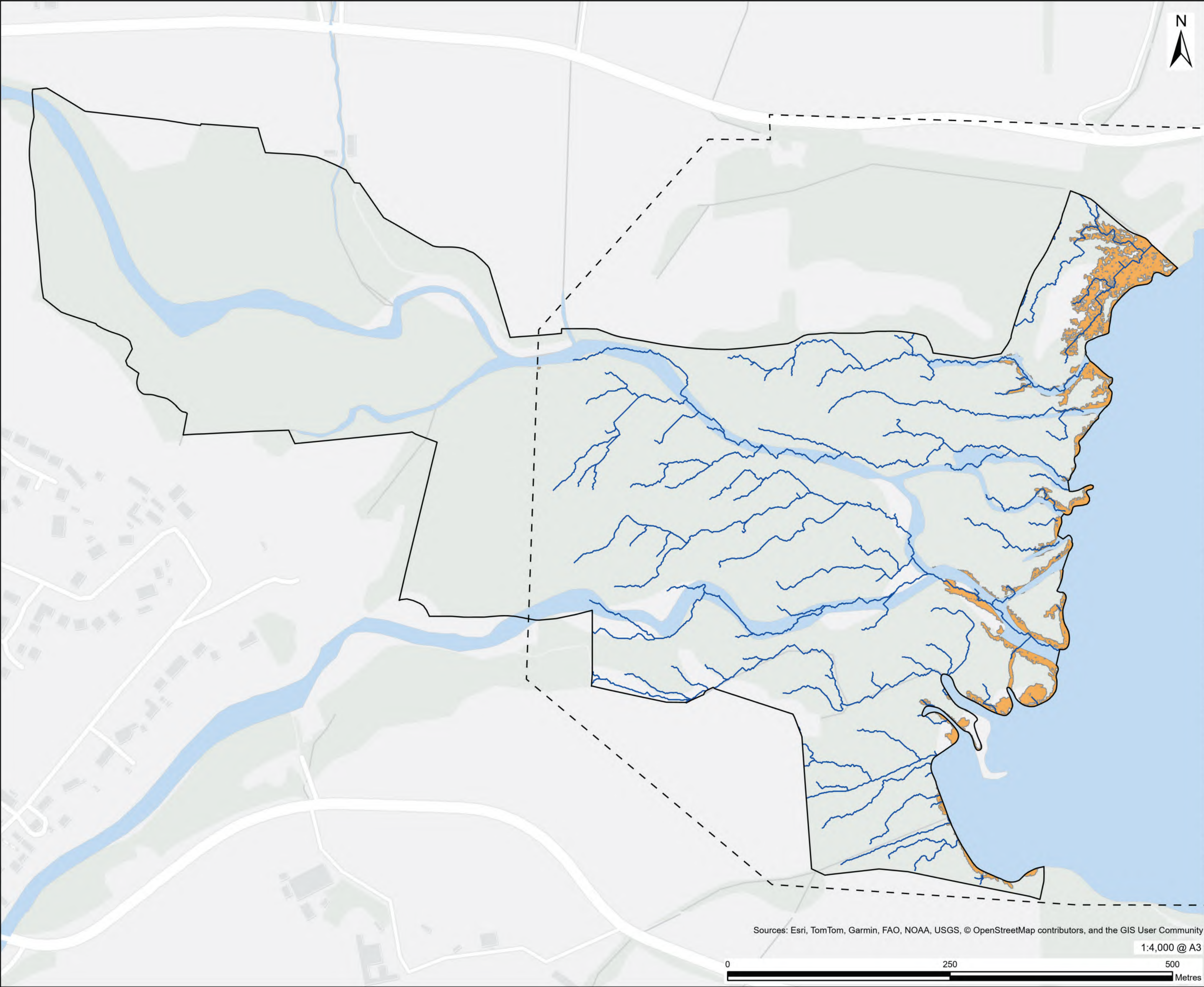
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	2.2	31.8
Sums of 25 – 72 hr (just over 1 day up to 3 days)	1.6	2.7
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.6	1.1
Sums of > 168 hr (over 1 week)	0.6	0.3

Drying Event

Level Threshold = 15.90 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.9	W7; S28	1.2	2.60	1.33	2.90



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LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 15.9m - 1.33ha

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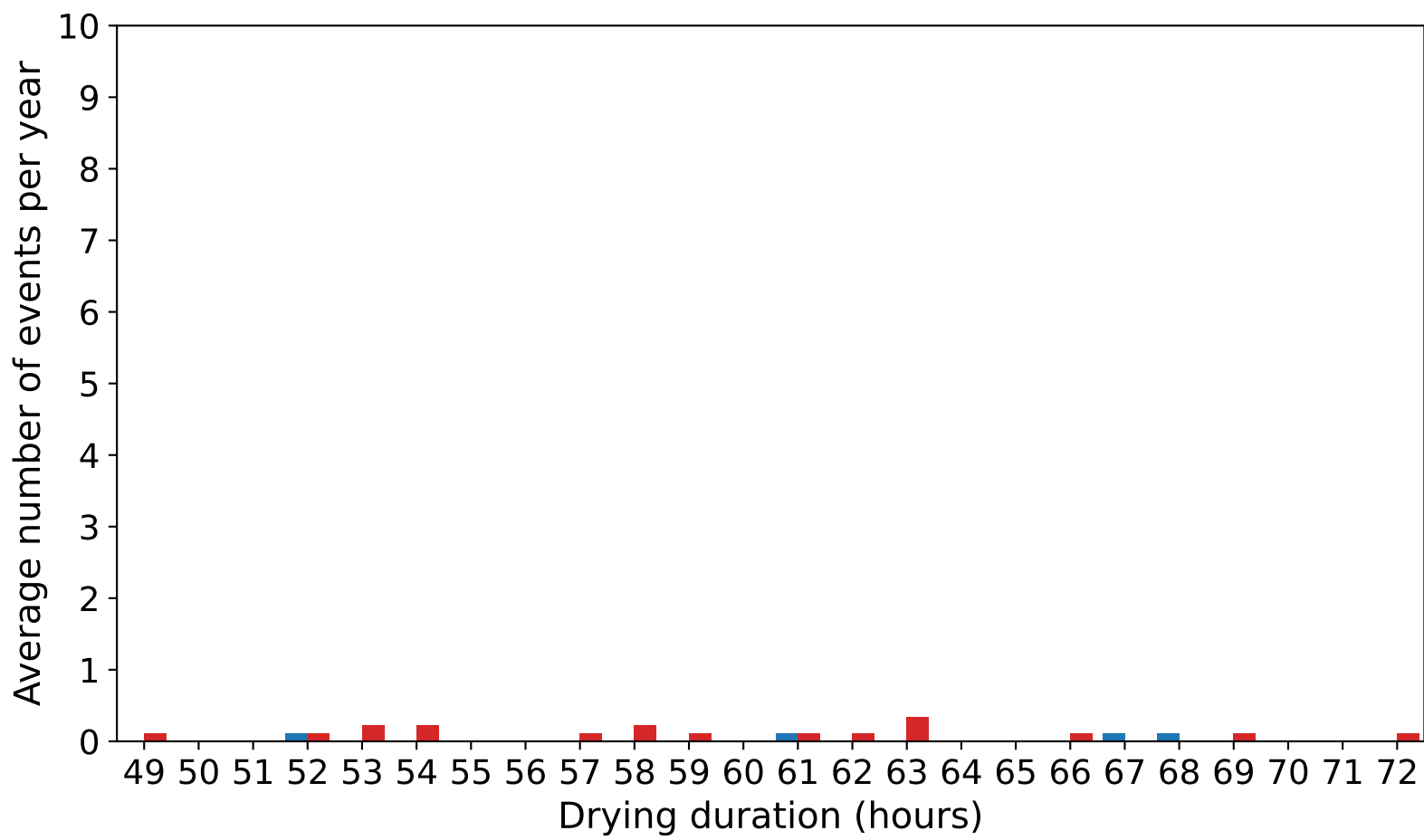
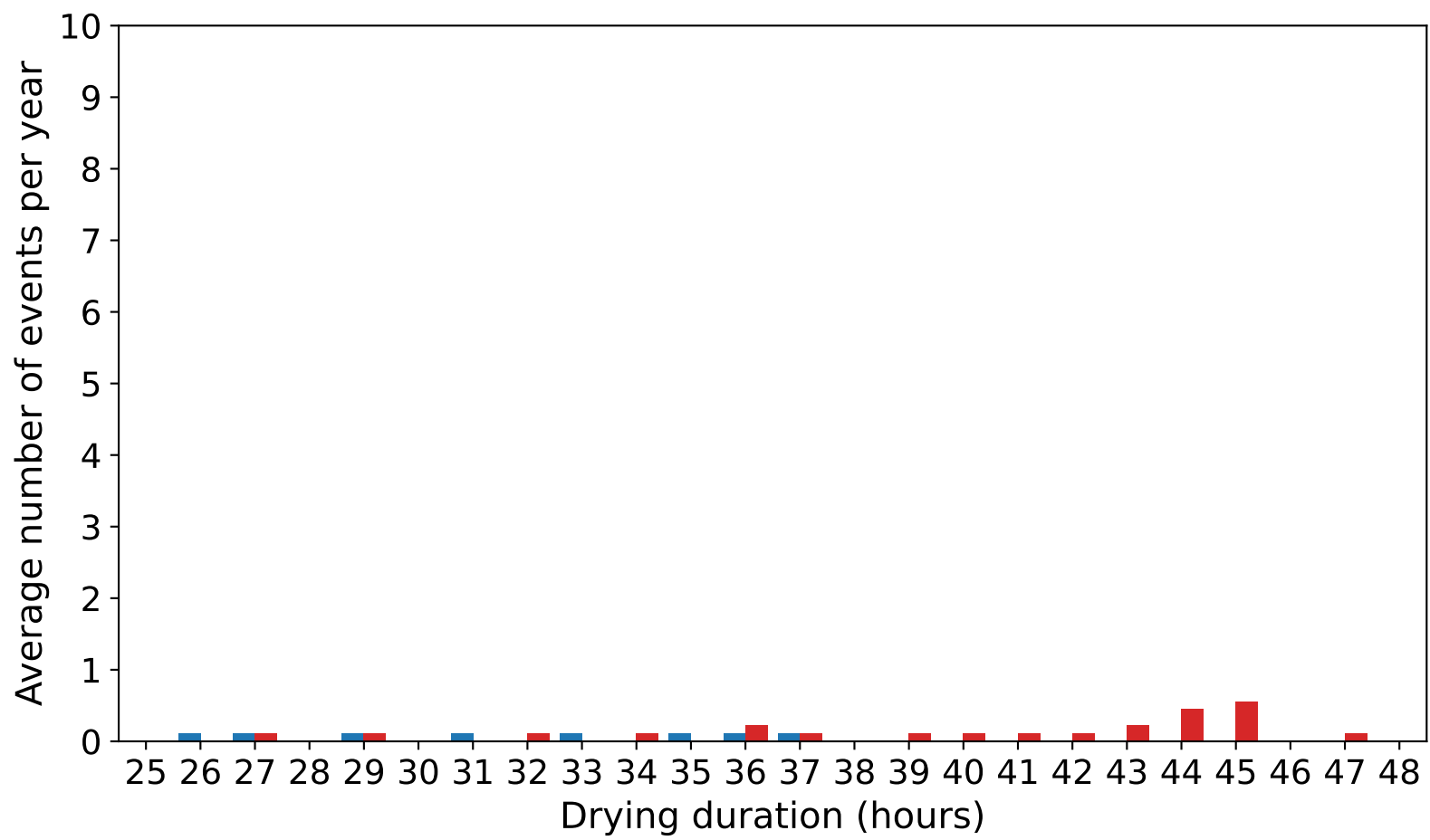
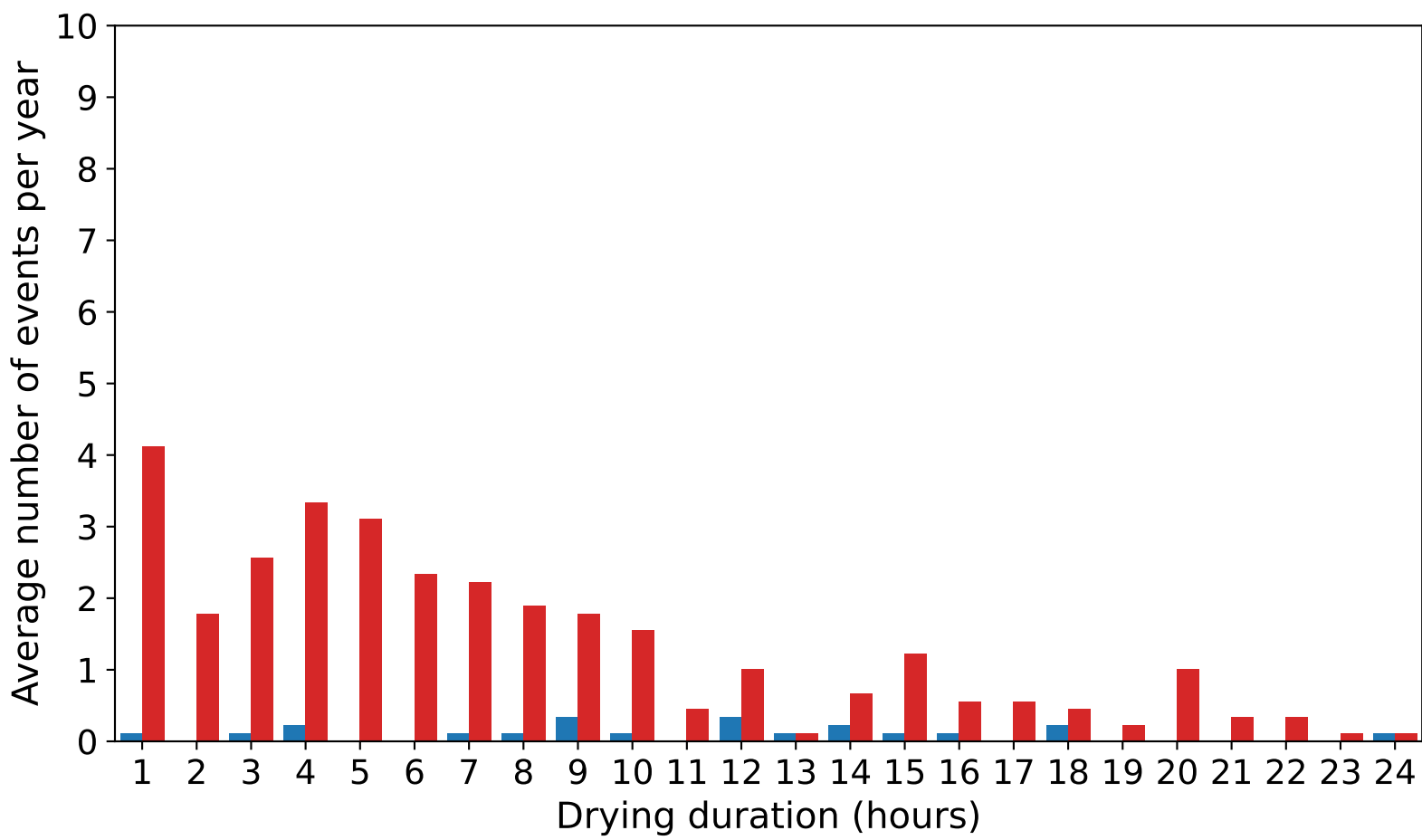
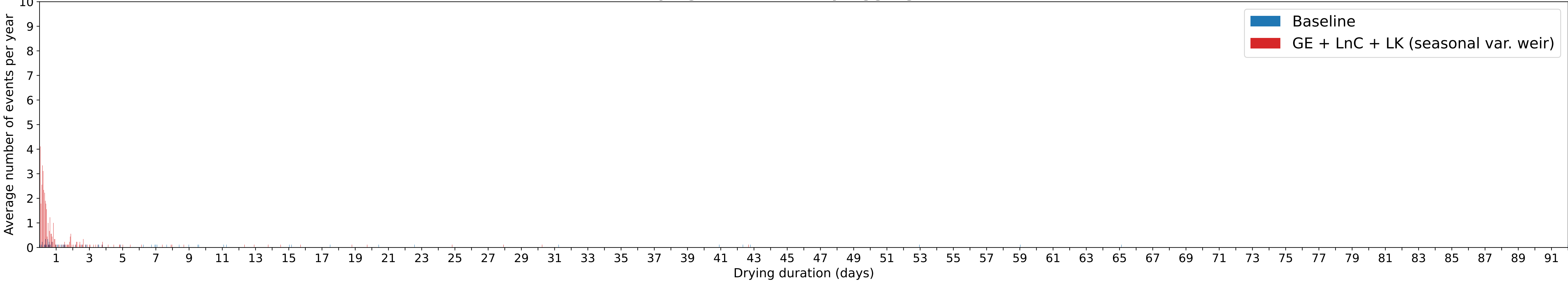
ISSUE PURPOSE
FINAL

PROJECT NUMBER
60719875

FIGURE TITLE
Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER
Figure 2.2

Spring - Level [15.90] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Spring - Level [15.90] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	4 hr	14 hr	61 hr (2.5 days)	230 hr (9.6 days)	1271 hr (53.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	4 hr	8 hr	18 hr	120 hr (5.0 days)

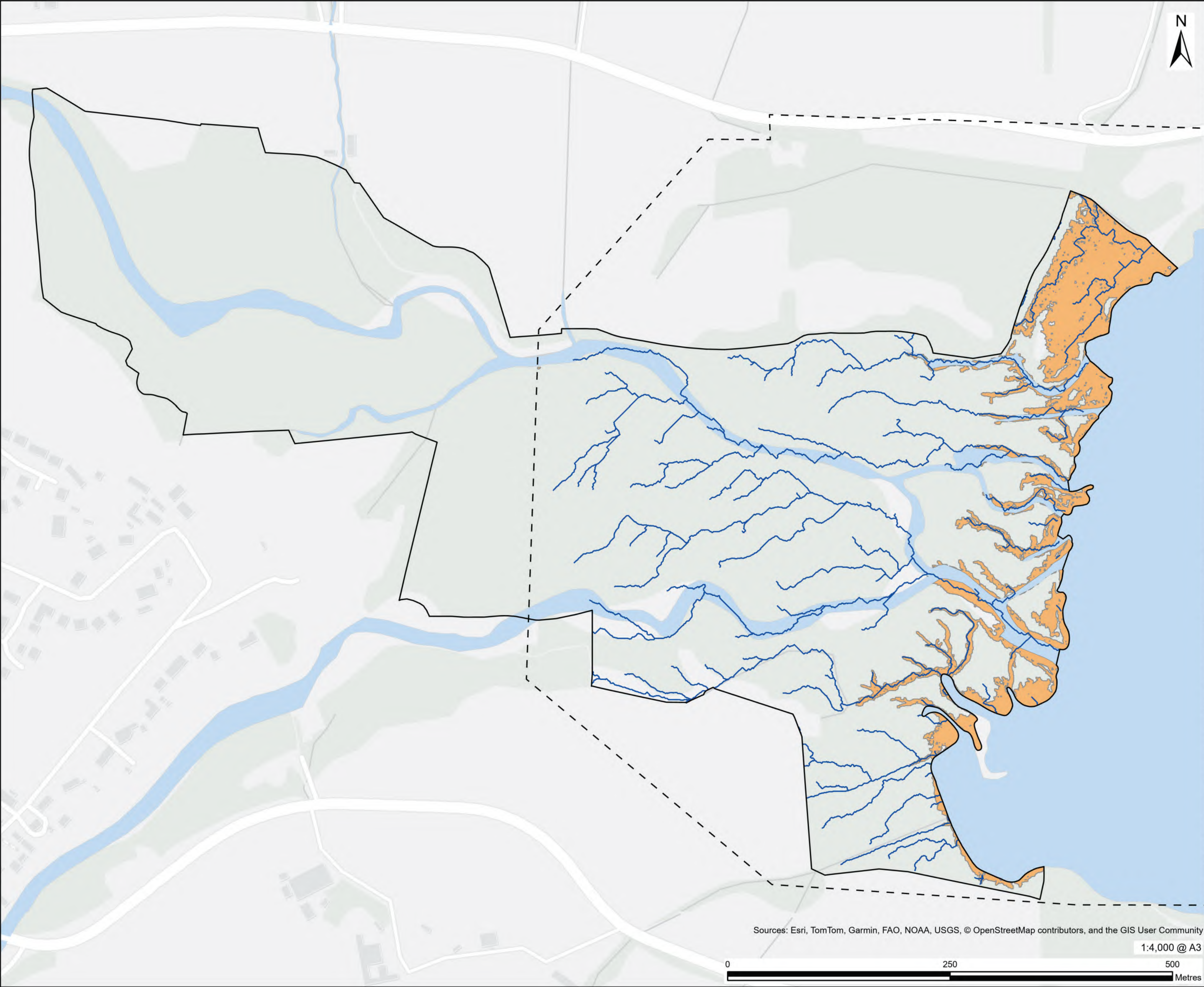
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	2.3	31.8
Sums of 25 – 72 hr (just over 1 day up to 3 days)	1.3	4.6
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.9	1.6
Sums of > 168 hr (over 1 week)	2.3	1.7

Drying Event

Level Threshold = 16.10 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.1	W7; S28	2.3	5.00	3.63	7.90



PROJECT

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LEGEND

Urquhart Bay Wood - Special Areas of Conservation (SAC)
 LiDAR Survey Extent
 OS OML Surface Water
 Modelled Watercourse
 Predicted Water Area (Meters Above Datum)
 16.1m - 3.63ha

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ISSUE PURPOSE

FINAL

PROJECT NUMBER

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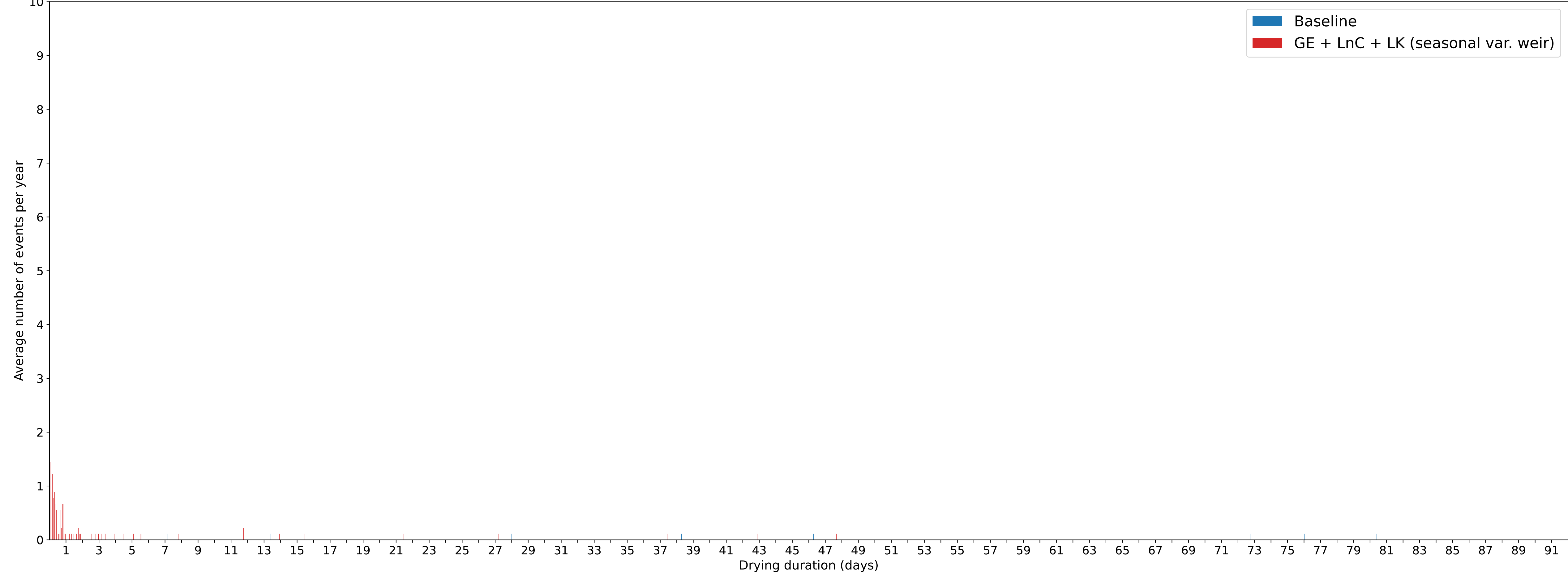
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.3

**Spring - Level [16.10] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)**



Note: Values represent average events per year (9-year dataset).

Spring - Level [16.10] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	168 hr (7.0 days)	463 hr (19.3 days)	1414 hr (58.9 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	5 hr	13 hr	46 hr (1.9 days)	601 hr (25.0 days)

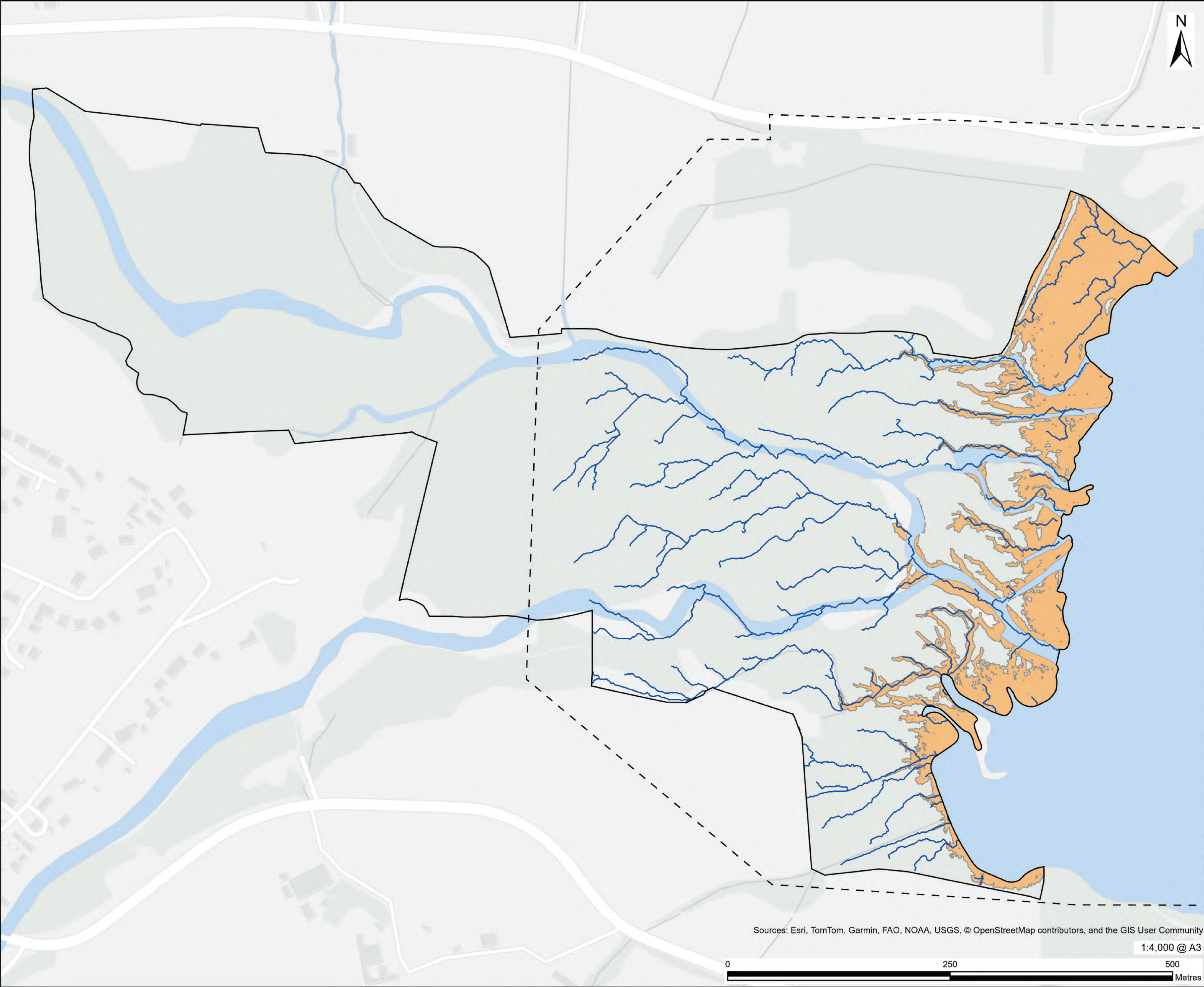
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	13.2
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	2.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.1	1.7
Sums of > 168 hr (over 1 week)	1.6	2.2

Drying Event

Level Threshold = 16.30 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.3	W7	1.95	4.20	5.58	12.10



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LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse
- Predicted Water Area (Meters Above Datum)
 - 16.3m - 5.58ha

NOTES

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FINAL

PROJECT NUMBER

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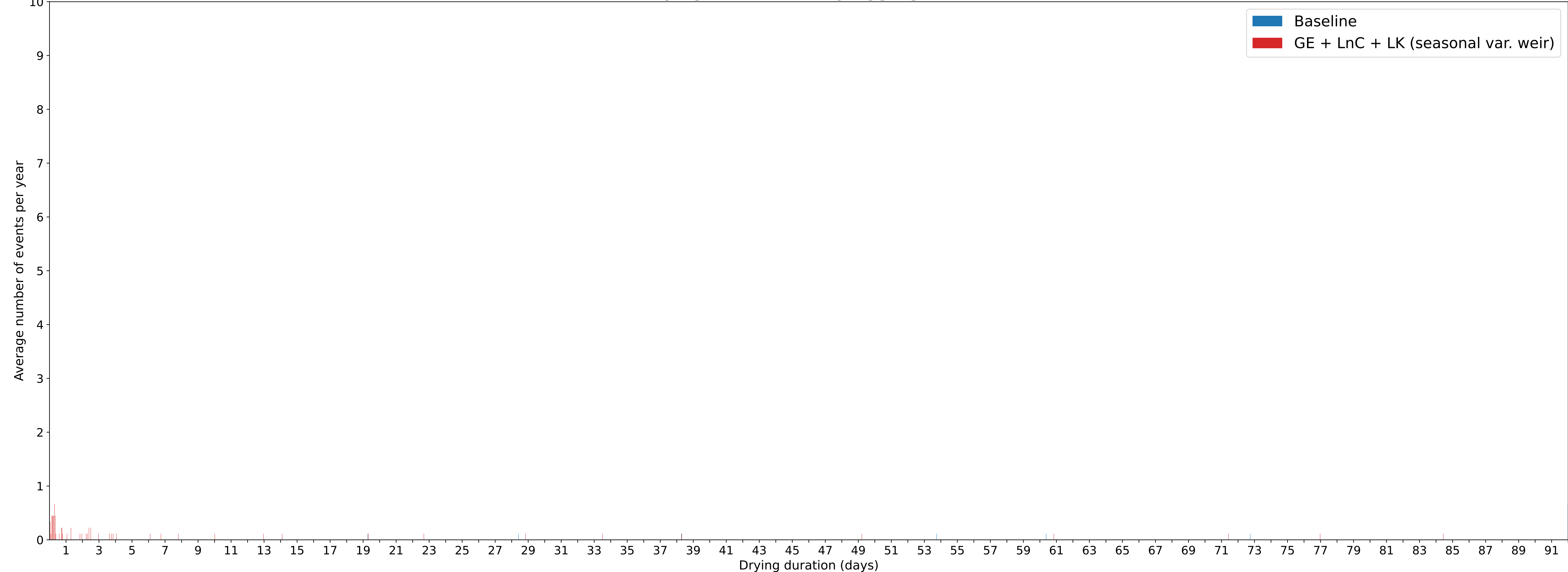
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.4

**Spring - Level [16.30] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)**



Note: Values represent average events per year (9-year dataset).

Spring - Level [16.30] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	1746 hr (72.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	2 hr	6 hr	18 hr	146 hr (6.1 days)	1847 hr (77.0 days)

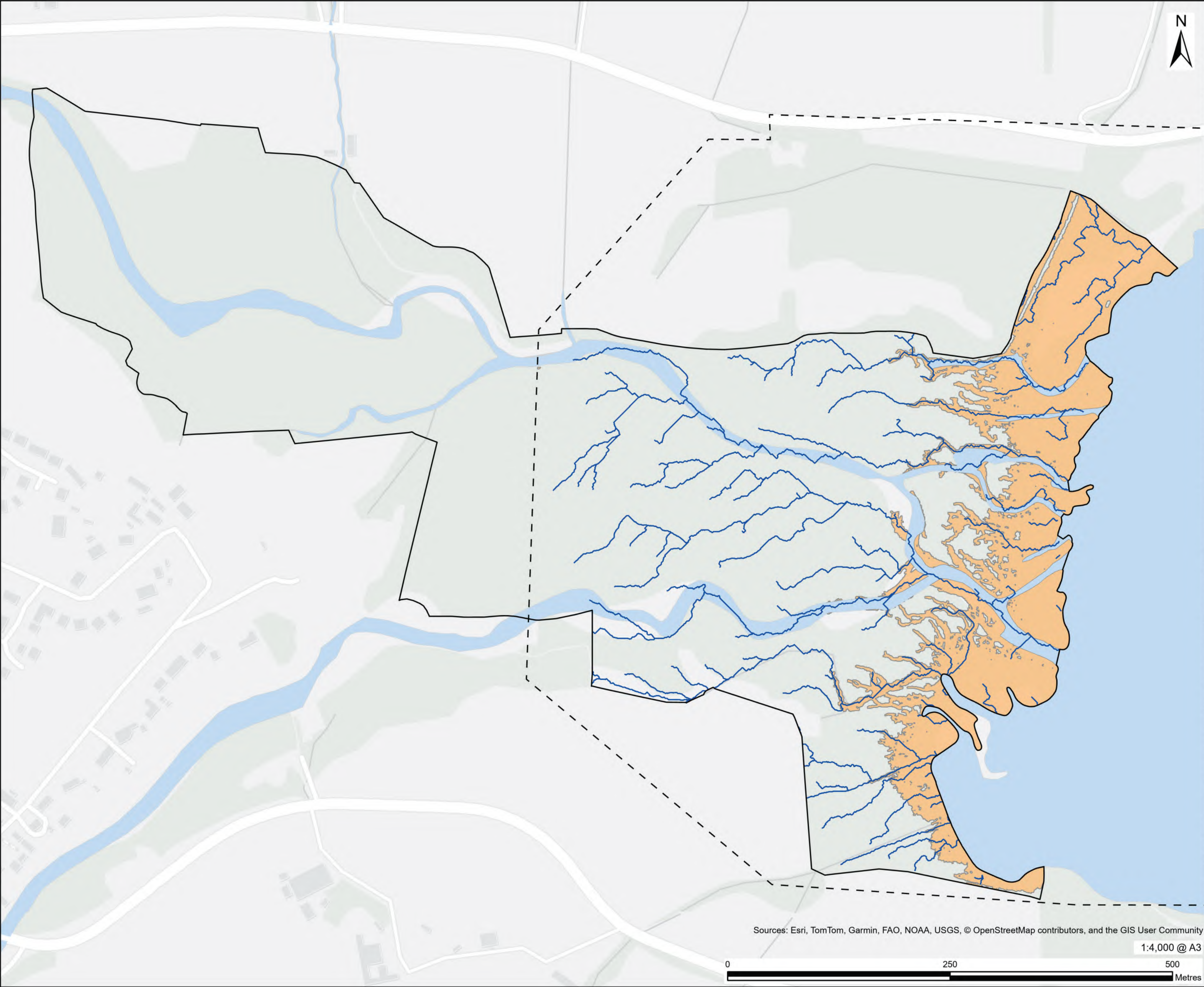
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	4.1
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	1.3
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.7
Sums of > 168 hr (over 1 week)	1.3	1.8

Drying Event

Level Threshold = 16.50 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.5	W7	1.91	4.10	7.49	16.20



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LEGEND

Urquhart Bay Wood - Special Areas of Conservation (SAC)
 LiDAR Survey Extent
 OS OML Surface Water
 Modelled Watercourse
 Predicted Water Area (Meters Above Datum)
16.5m - 7.49ha

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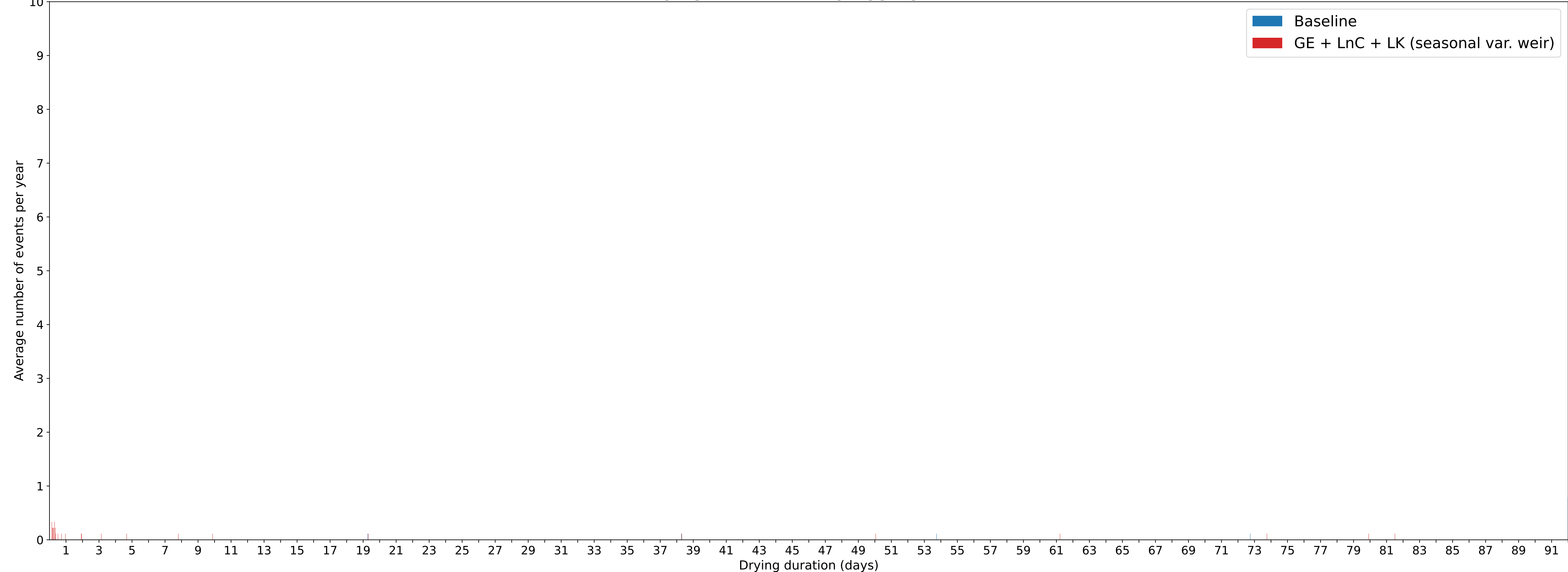
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.5

**Spring - Level [16.50] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)**



Note: Values represent average events per year (9-year dataset).

Spring - Level [16.50] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	3 hr	6 hr	23 hr	1201 hr (50.0 days)	2208 hr (92.0 days)

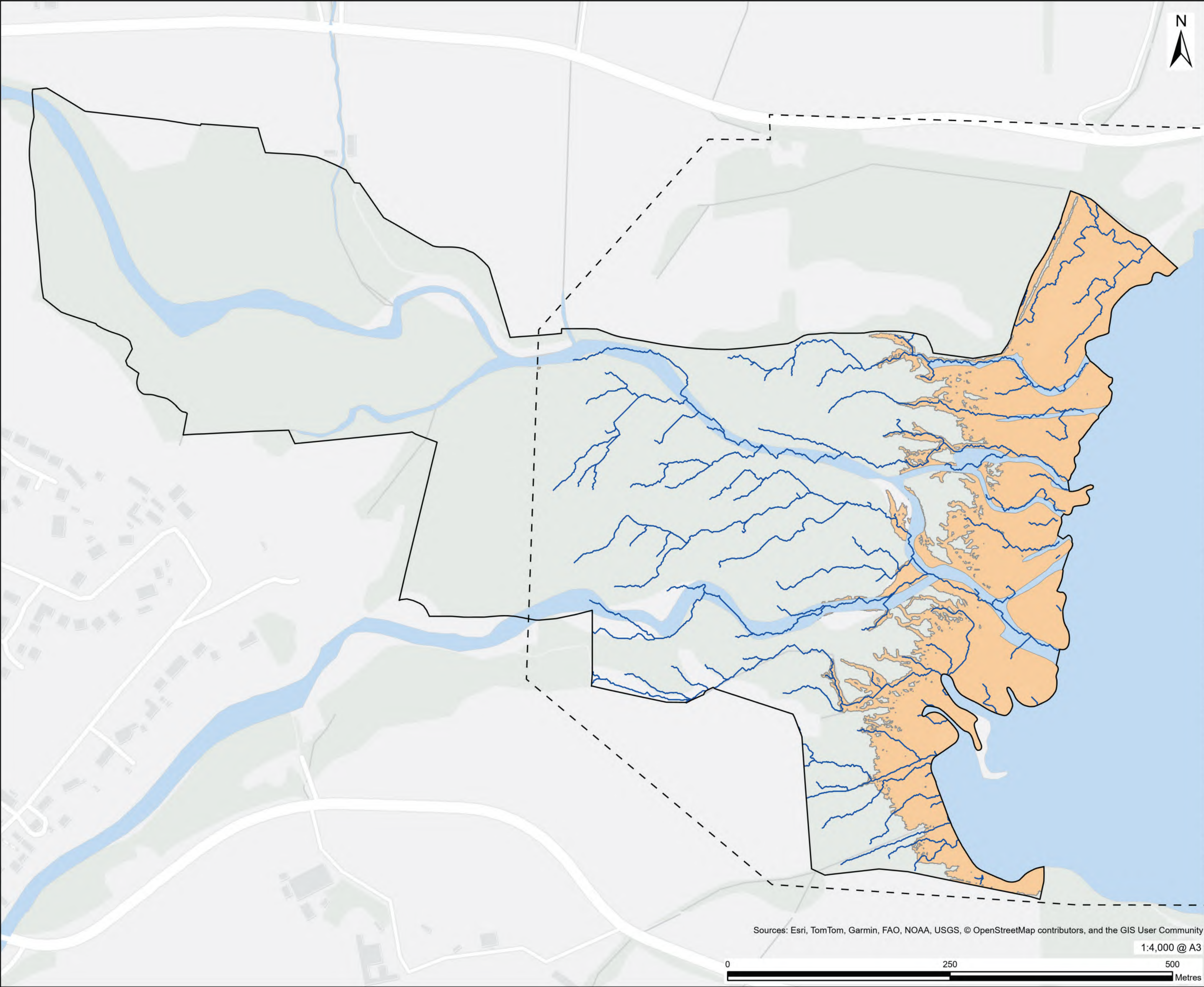
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	2.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.2
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.2
Sums of > 168 hr (over 1 week)	1.2	1.4

Drying Event

Level Threshold = 16.70 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.7	W7; W7-W9 (intermediate)	1.57	3.40	9.06	19.60



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LEGEND

Urquhart Bay Wood - Special Areas of Conservation (SAC)

LiDAR Survey Extent

OS OML Surface Water

Modelled Watercourse

Predicted Water Area (Meters Above Datum)

16.7m - 9.06ha

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PROJECT NUMBER

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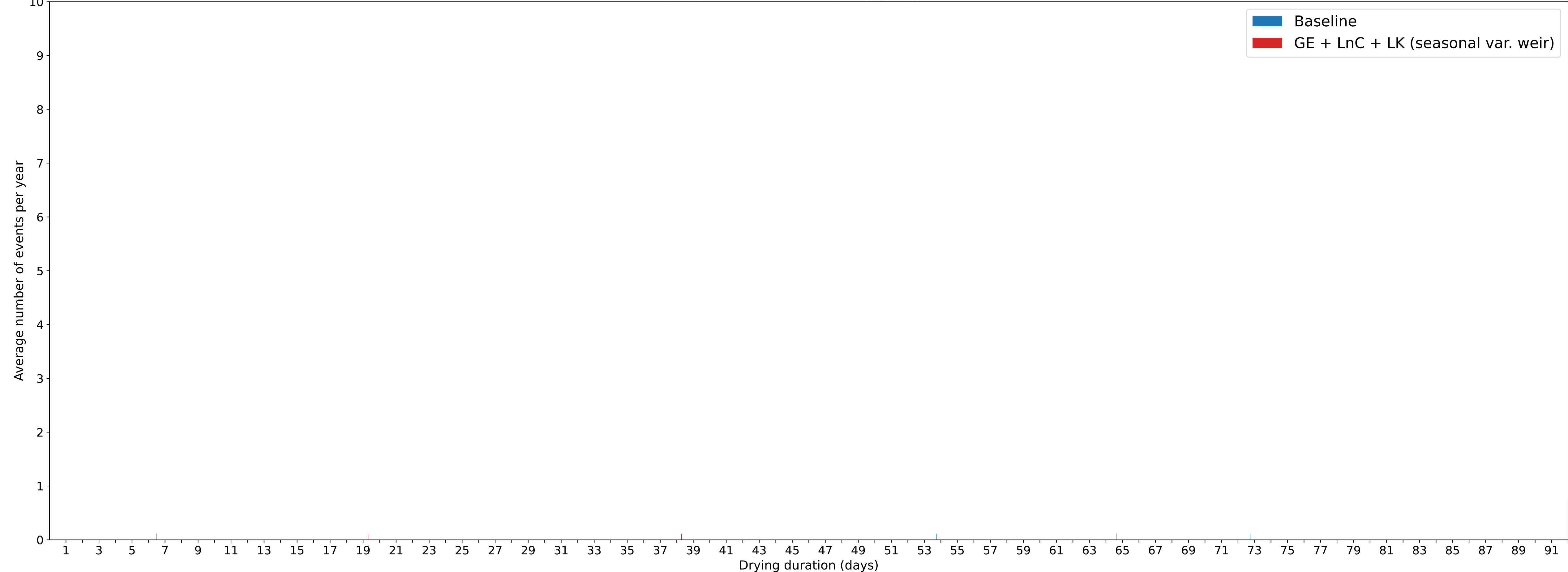
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.6

Spring - Level [16.70] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Spring - Level [16.70] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	155 hr (6.5 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

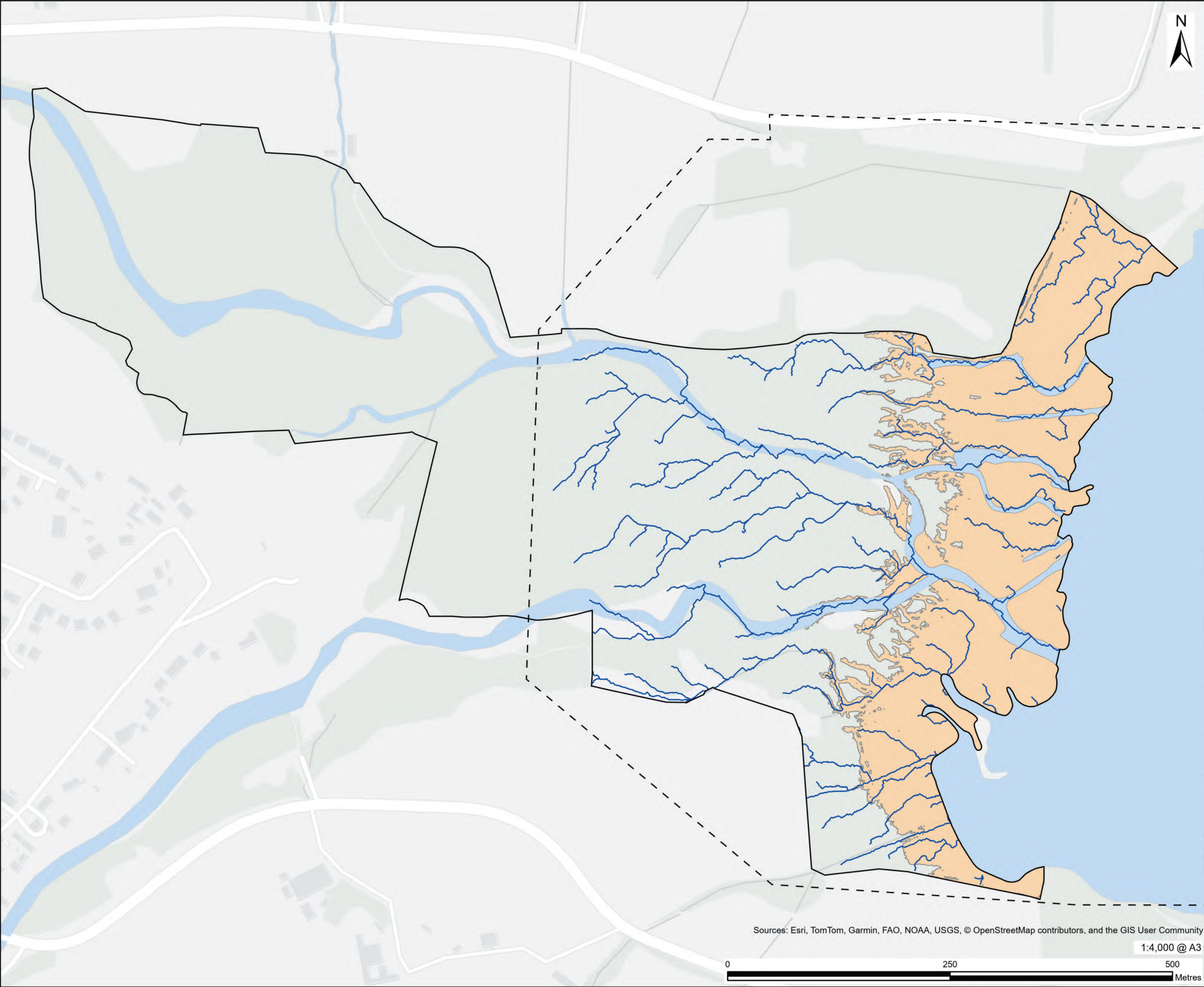
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.1
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event

Level Threshold = 16.90 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
16.9	W7; W7-W9 (intermediate)	1.38	3.00	10.44	22.60



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United Kingdom

LEGEND

- Urquhart Bay Wood - Special Areas of Conservation (SAC)
- LiDAR Survey Extent
- OS OML Surface Water
- Modelled Watercourse
- Predicted Water Area (Meters Above Datum)
 - 16.9m - 10.44ha

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ISSUE PURPOSE

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PROJECT NUMBER

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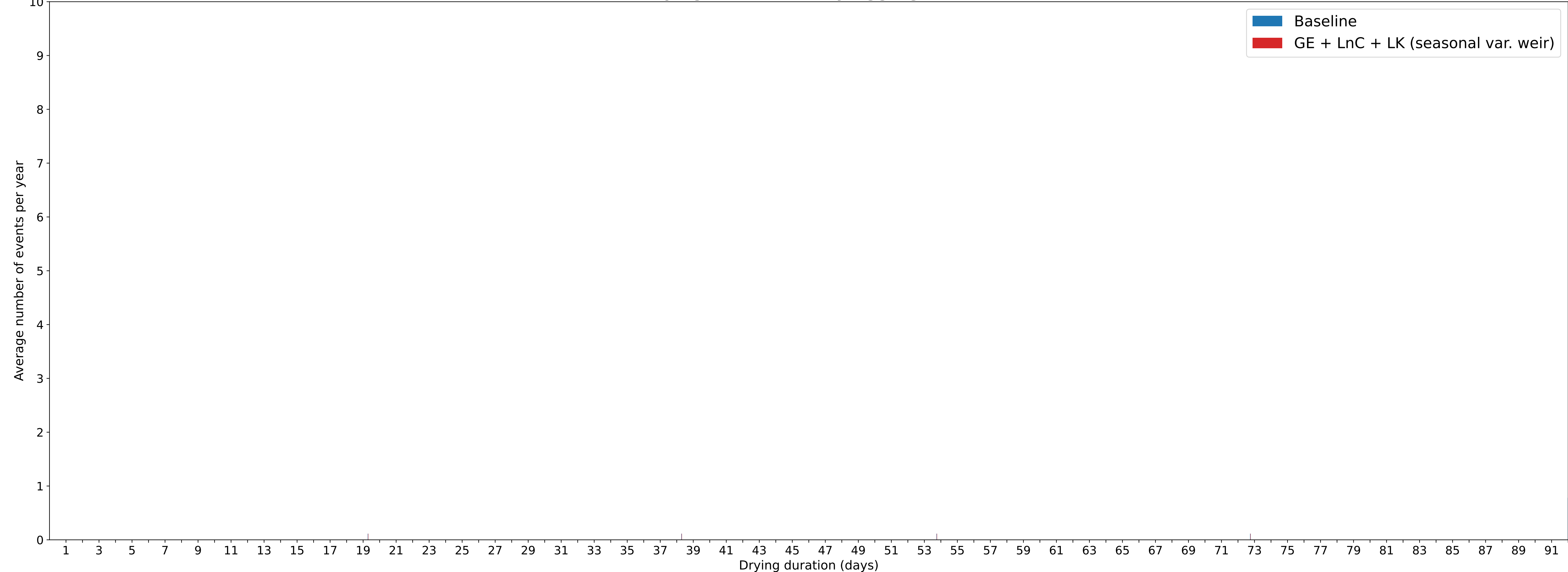
FIGURE TITLE

Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.7

Spring - Level [16.90] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Spring - Level [16.90] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

Event counts by duration category
(Average number per year)

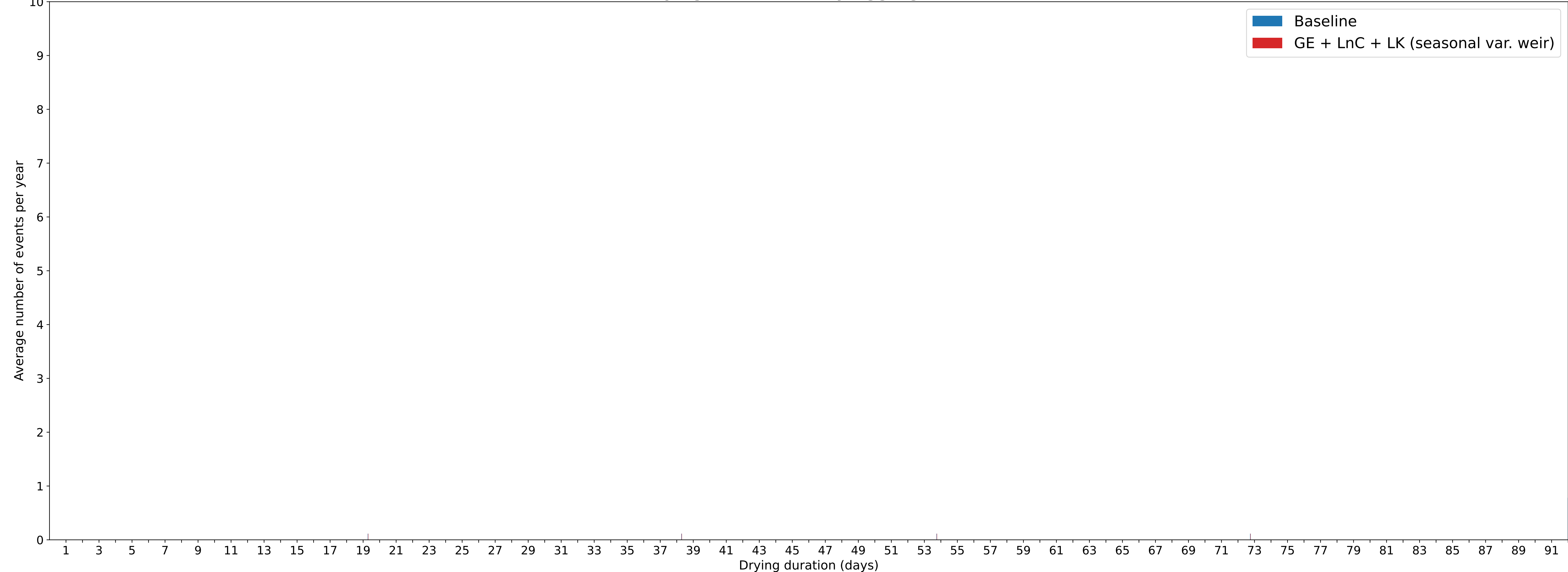
	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event

Level Threshold = 17.10 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
17.1	W7 / W9 (transition)	1.24	2.70	11.68	25.30

Spring - Level [17.10] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Spring - Level [17.10] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event

Level Threshold = 17.30 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
17.3	W9 dominant	1.52	3.30	13.2	28.60

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London, E1 8FA
United Kingdom

 Urquhart Bay Wood - Special Areas Conservation (SAC)
 LiDAR Survey Extent
 OS OML Surface Water
 Modelled Watercourse
Predicted Water Area (Meters Above Datum)
 17.3m - 13.20ha

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Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

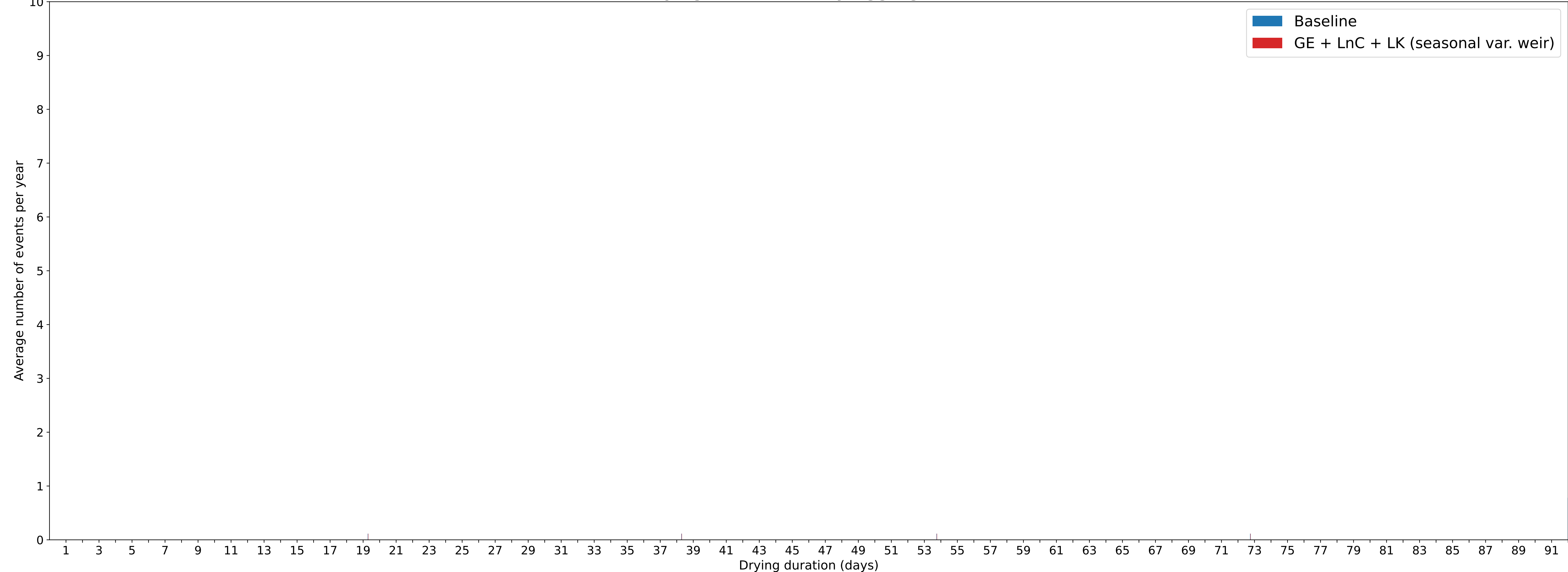
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Urquhart Bay Wood LiDAR Survey -
Predicted Water Areas at 0.2m Level
Bandings

Figure 2.9

Spring - Level [17.30] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



Note: Values represent average events per year (9-year dataset).

Spring - Level [17.30] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2

Drying Event

Level Threshold = 17.50 m

Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
17.5	W9 dominant	1.18	2.50	14.38	31.10

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London, E1 8FA
United Kingdom

 Urquhart Bay Wood - Special Areas of Conservation (SAC)
 LiDAR Survey Extent
 OS OML Surface Water
 Modelled Watercourse
 Predicted Water Area (Meters Above Datum)
 17.5m - 14.38ha

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Predicted Water Areas have been derived from a LiDAR based Digital Terrain Model (DTM) supplied by Zenith Surveying Ltd. (December 2025)

Modelled Watercourses have been generated from ESRI Spatial Analyst flow accumulation modelling based on the LiDAR DTM. A flow accumulation threshold of 1000sqm has been applied.

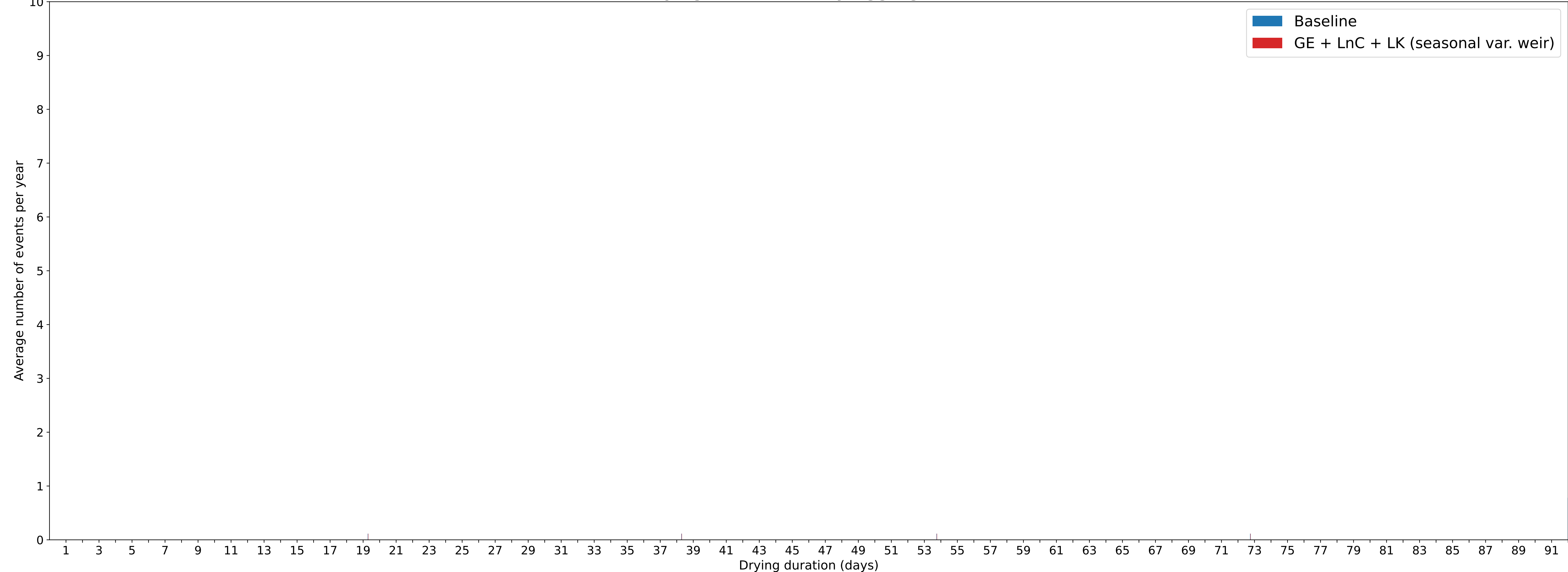
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Urquhart Bay Wood LiDAR Survey -
Predicted Water Areas at 0.2m Level
Bandings

Figure 2.10

**Spring - Level [17.50] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)**



Note: Values represent average events per year (9-year dataset).

Spring - Level [17.50] m - Seasonal Variable Weir
Drying Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)
GE + LnC + LK (seasonal var. weir)	463 hr (19.3 days)	1290 hr (53.8 days)	2208 hr (92.0 days)	2208 hr (92.0 days)	2208 hr (92.0 days)

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.2	1.2