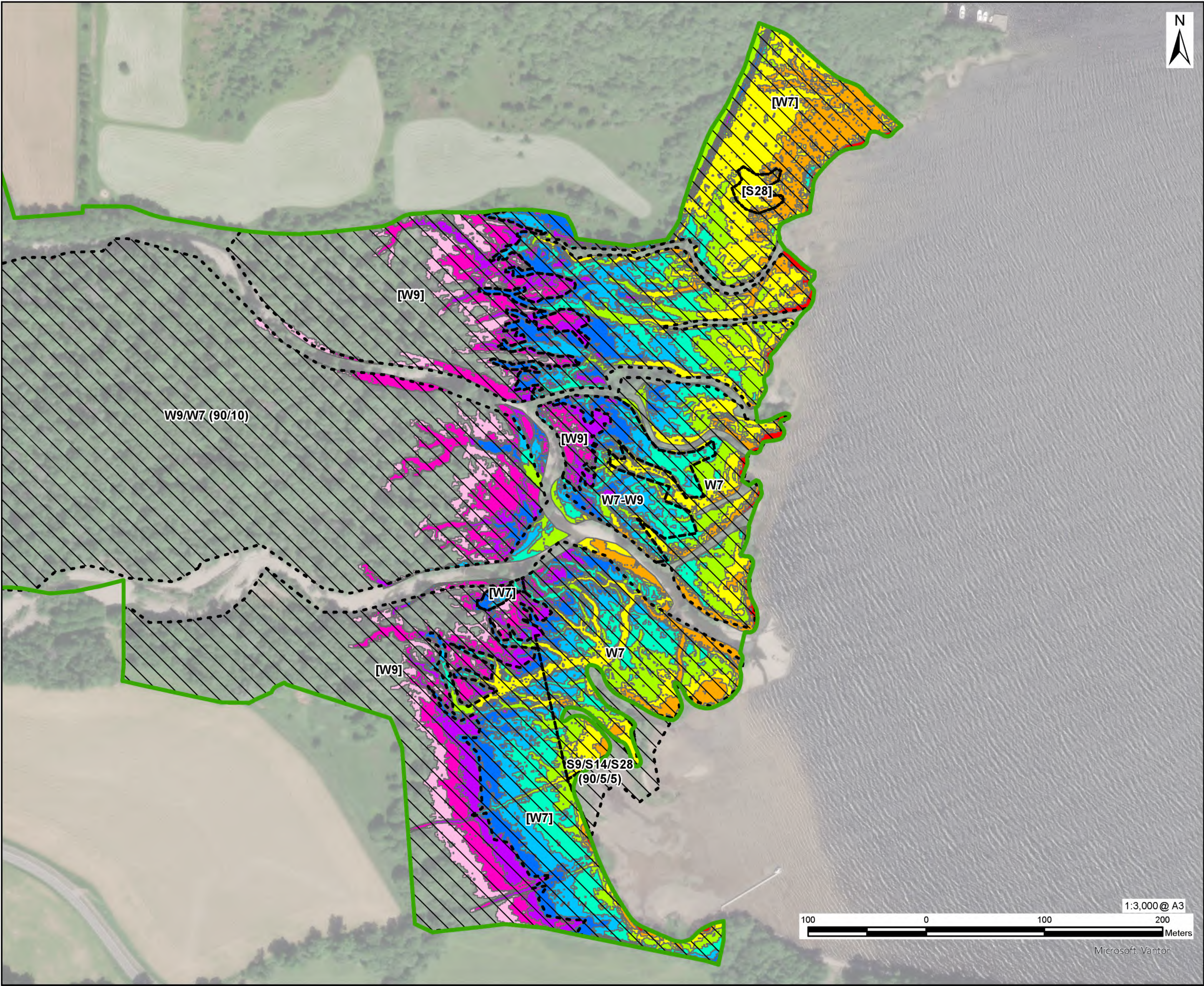


Drying Event Analysis
LnC + LK + GEE
Seasonal Variable Weir

Growing Season
(1st April - 31st Oct)



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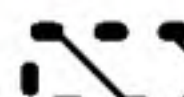
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EH3 5DA
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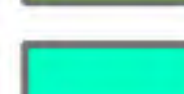
SAC boundary

 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

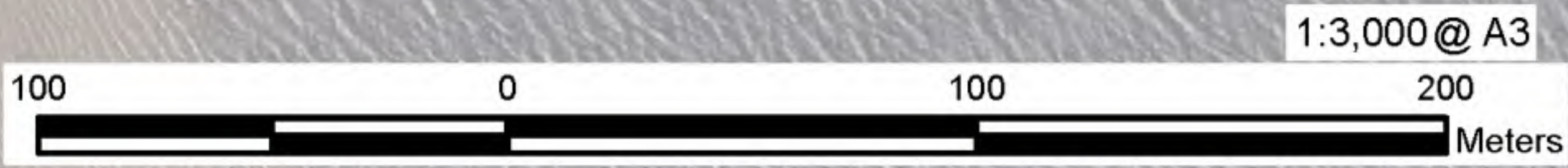
60719875

FIGURE TITLE

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

FIGURE NUMBER

Figure 1



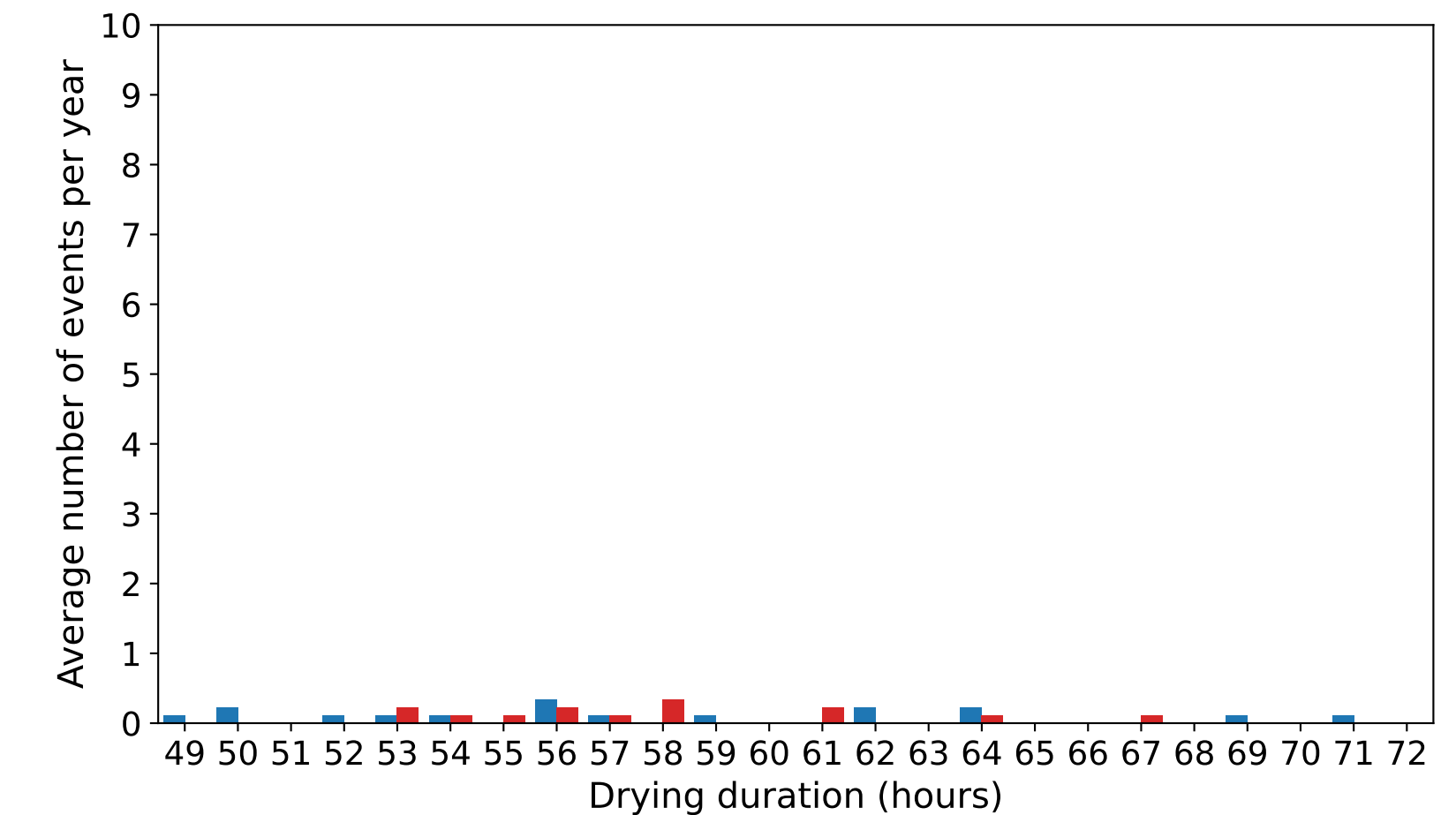
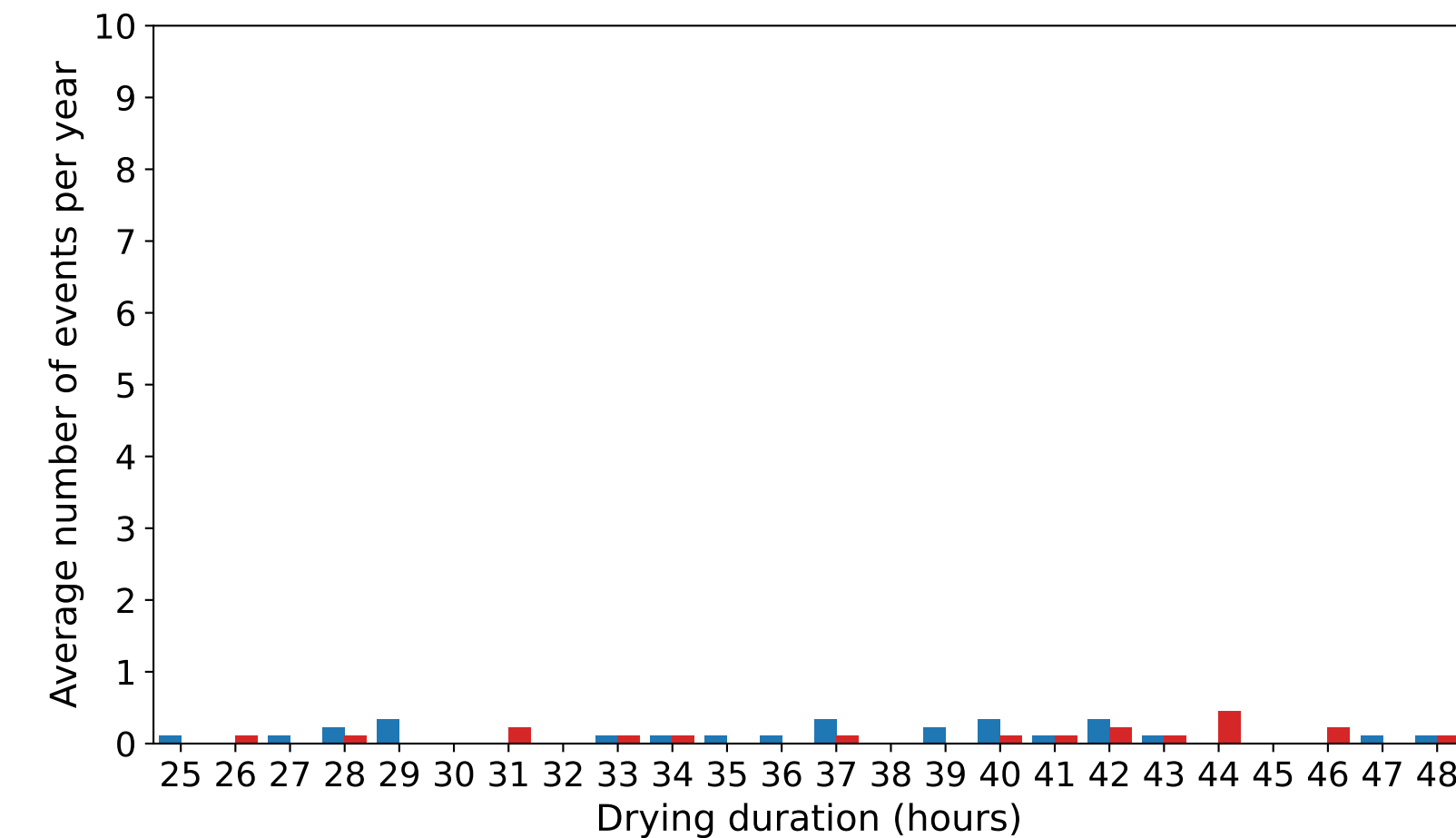
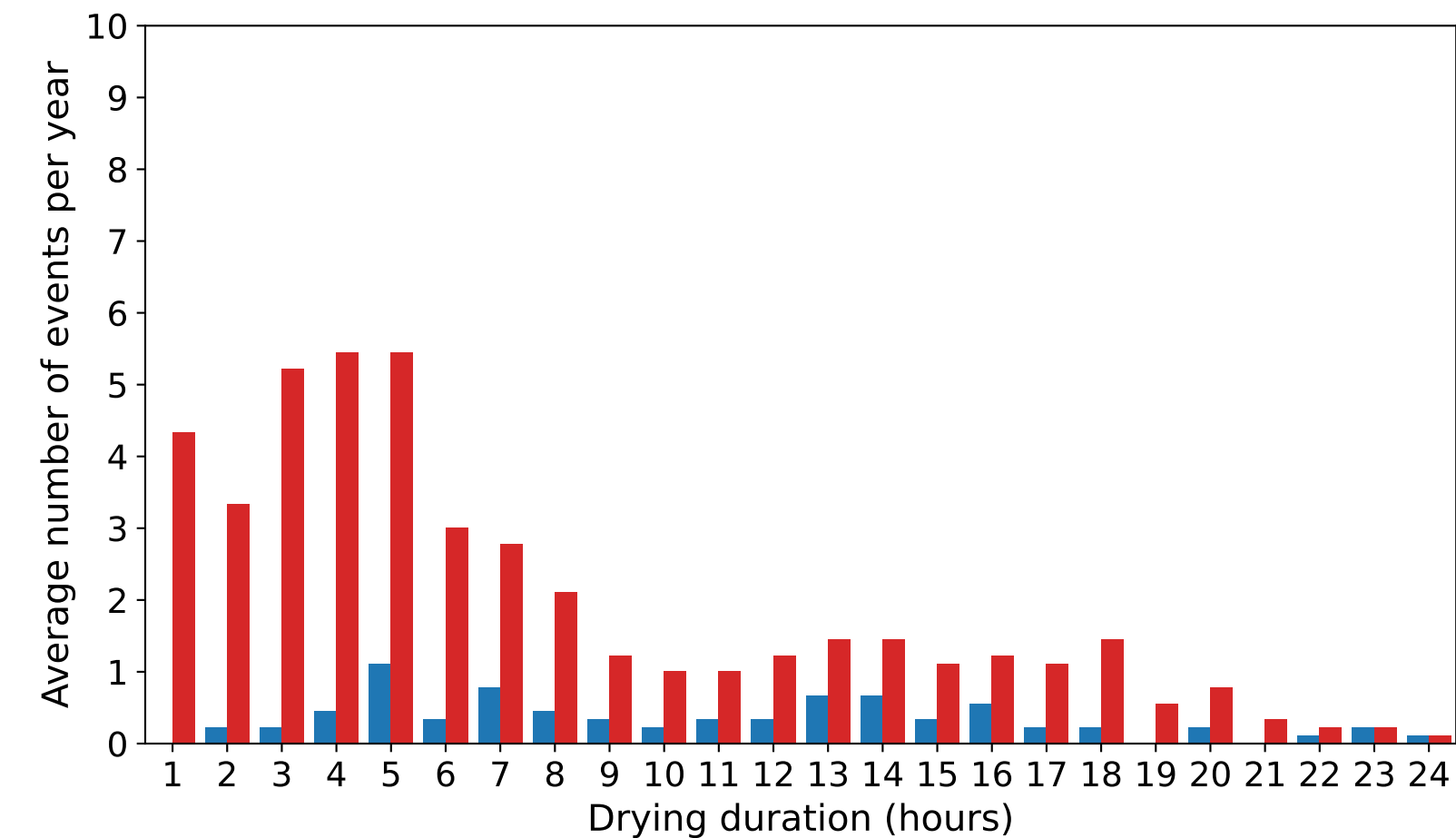
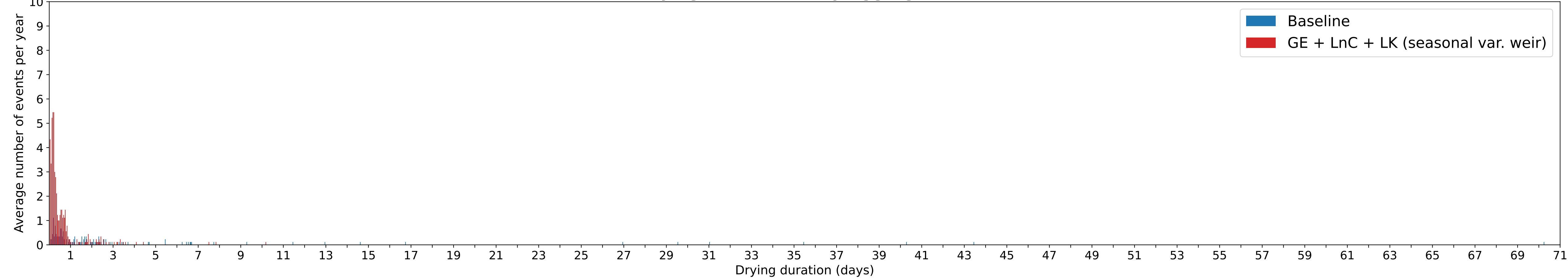
Water level (m AOD)	Habitat / NVC at this level band	Area at this level band (ha)	Percentage of SAC (%)	Cumulative Area of SAC at this level (ha)	Cumulative Percentage of SAC (%)
15.7	W7; S9 / S14 / S28	0.13	0.30	0.13	0.30
15.9	W7; S28	1.2	2.60	1.33	2.90
16.1	W7; S28	2.3	5.00	3.63	7.90
16.3	W7	1.95	4.20	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

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



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

Growing Season - 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	4 hr	10 hr	23 hr	56 hr (2.3 days)	402 hr (16.8 days)
GE + LnC + LK (seasonal var. weir)	1 hr	3 hr	6 hr	14 hr	54 hr (2.2 days)

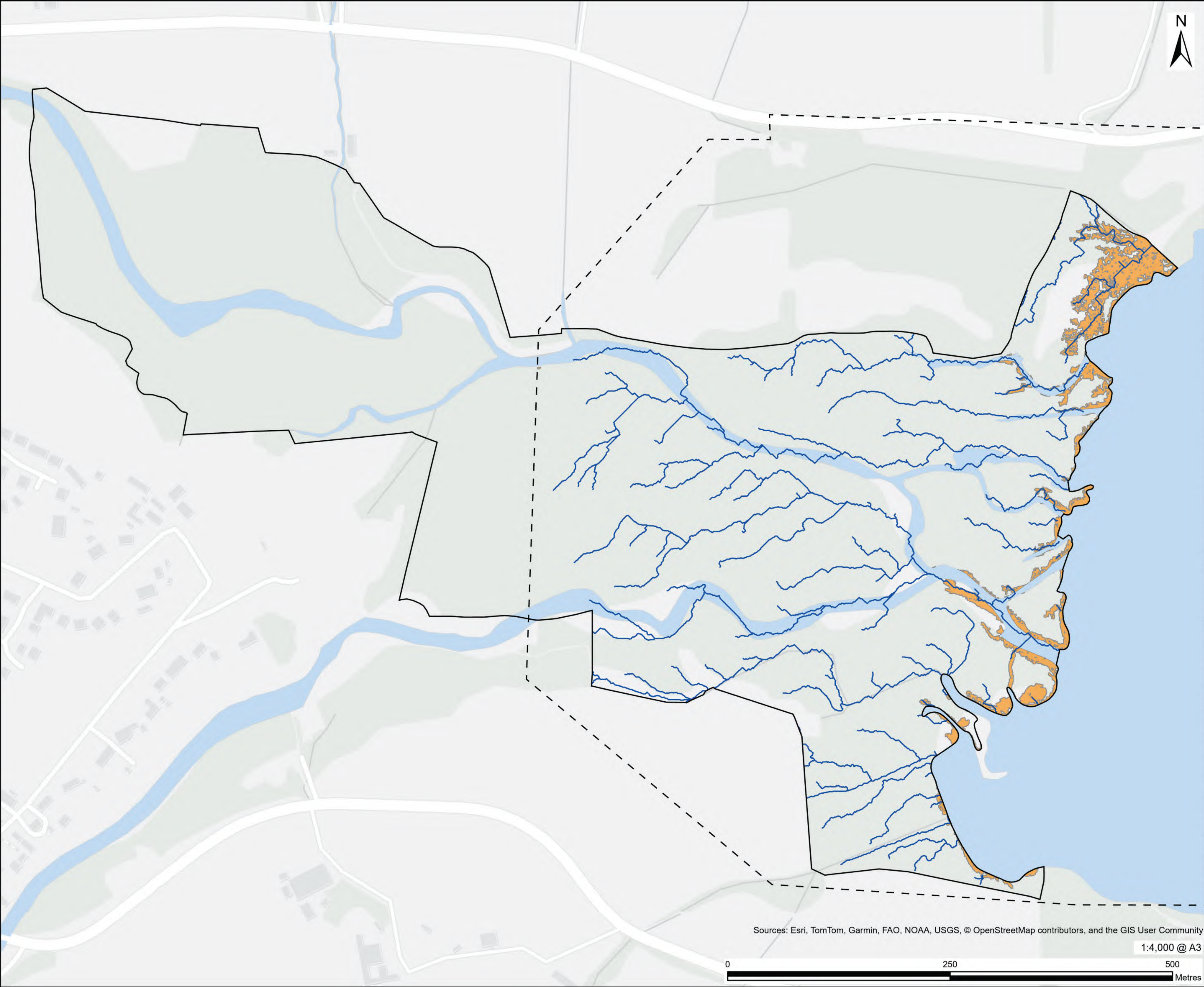
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	8.1	46.1
Sums of 25 – 72 hr (just over 1 day up to 3 days)	4.8	3.7
Sums of 73 – 168 hr (just over 3 days up to 7 days)	1.6	1.0
Sums of > 168 hr (over 1 week)	1.4	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

NOTES

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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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FIGURE TITLE

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

FIGURE NUMBER

Figure 2.2

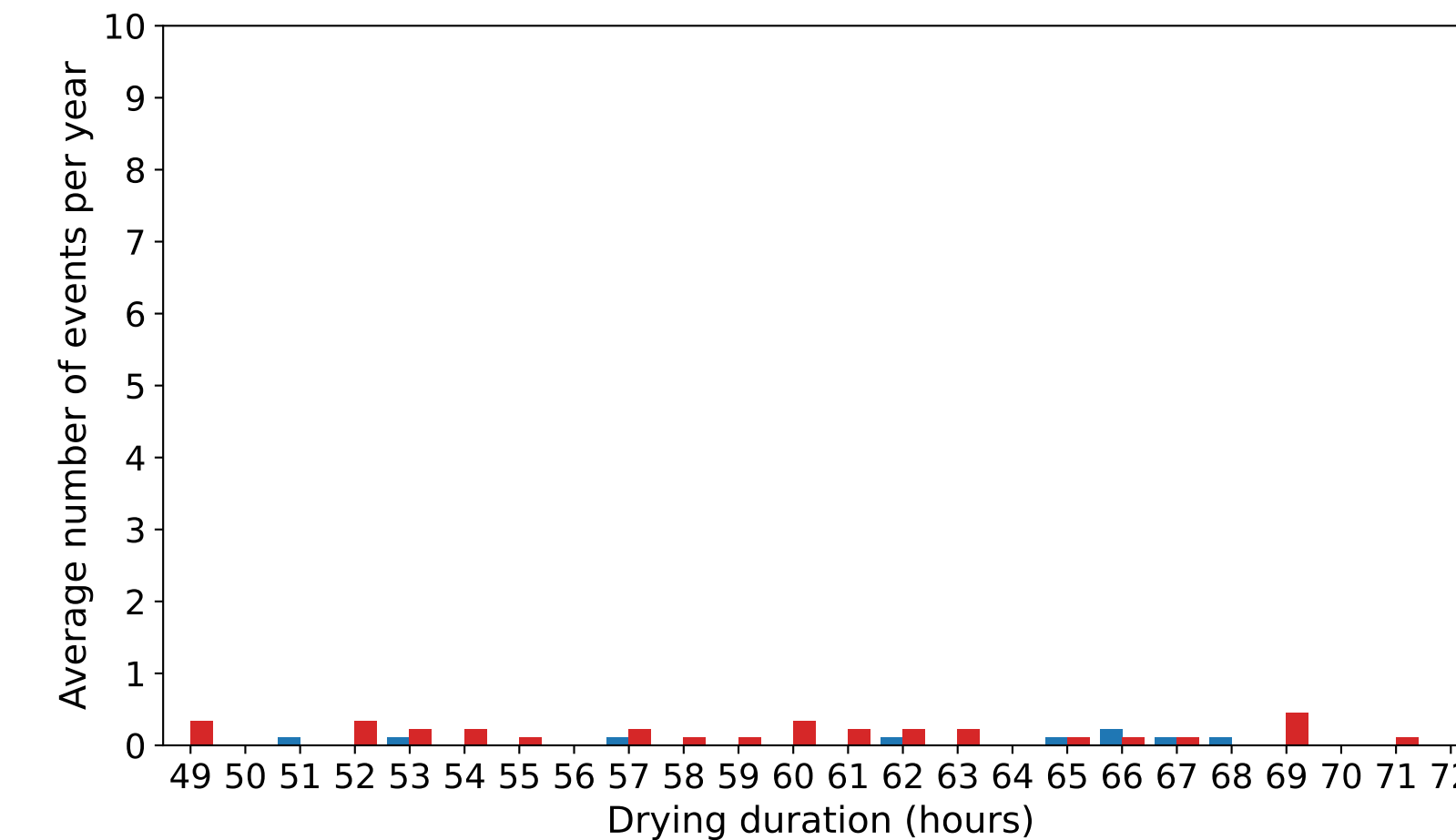
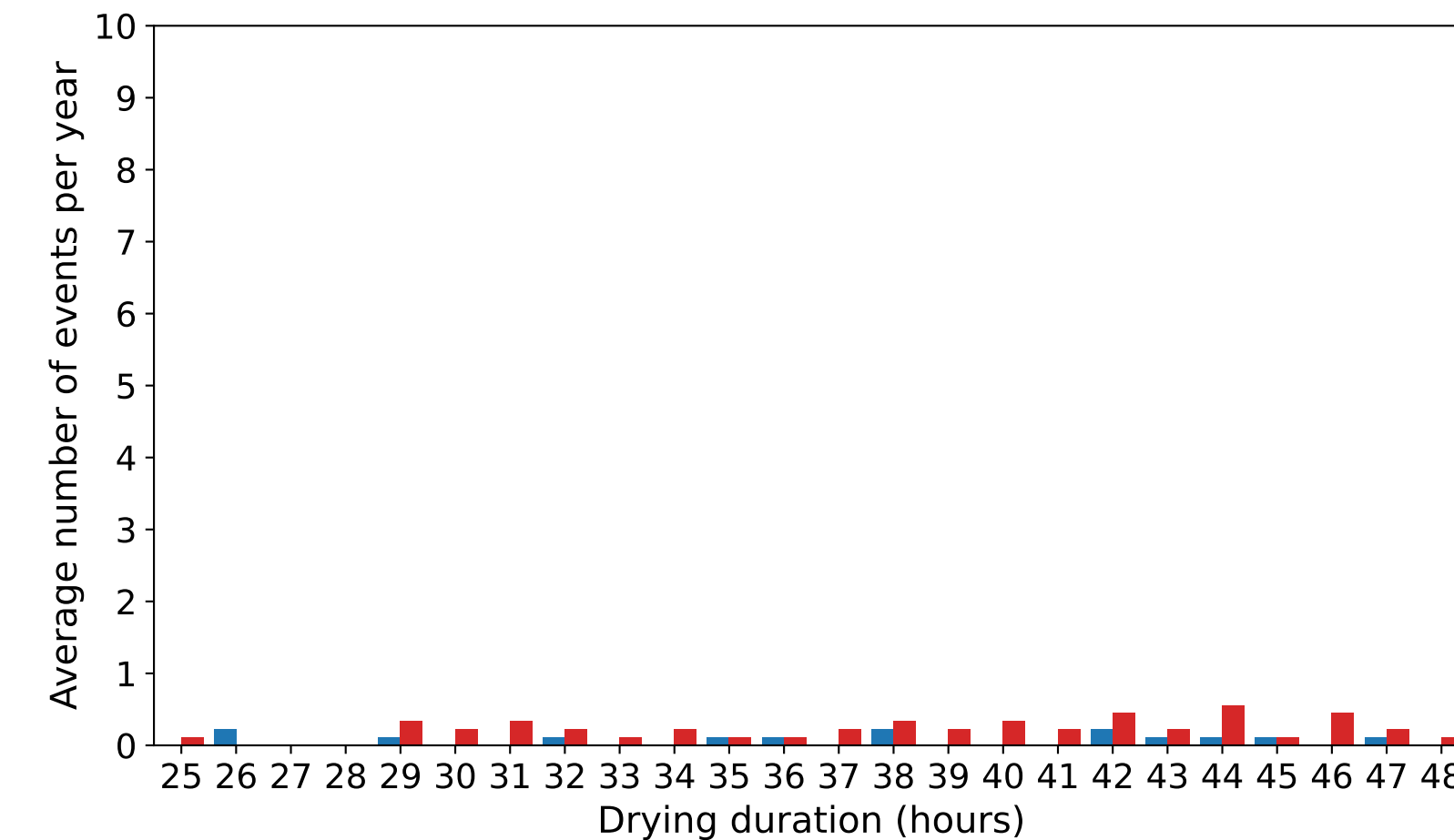
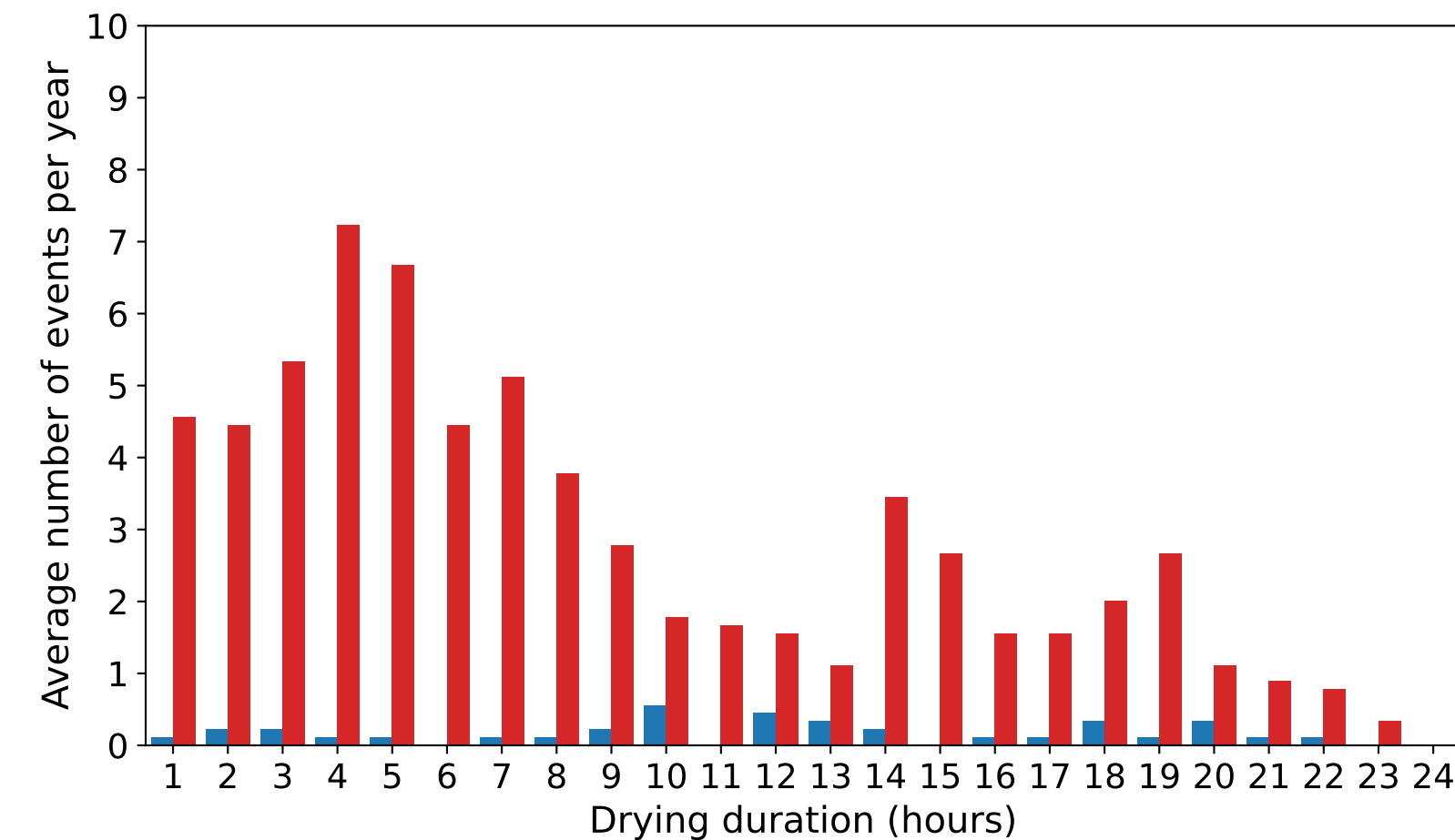
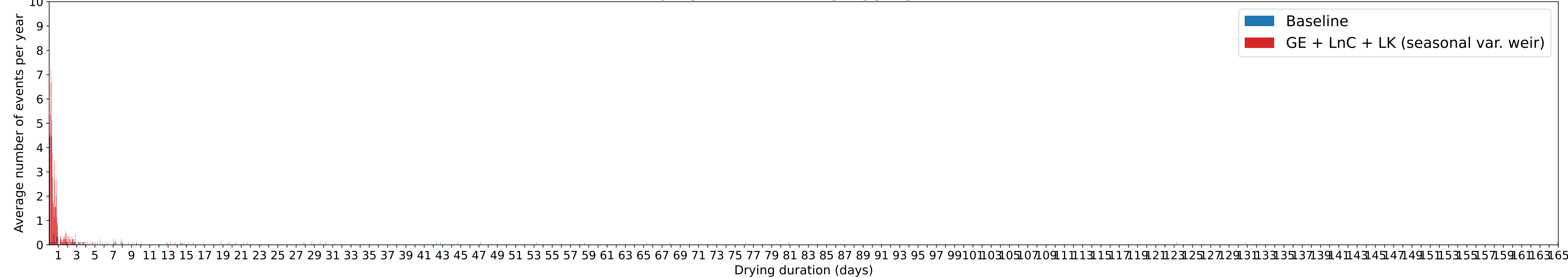
Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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



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

Growing Season - 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	18 hr	65 hr (2.7 days)	307 hr (12.8 days)	1681 hr (70.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	4 hr	8 hr	18 hr	69 hr (2.9 days)

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	4.0	67.4
Sums of 25 – 72 hr (just over 1 day up to 3 days)	2.6	8.8
Sums of 73 – 168 hr (just over 3 days up to 7 days)	1.4	1.8
Sums of > 168 hr (over 1 week)	4.1	1.8

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

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

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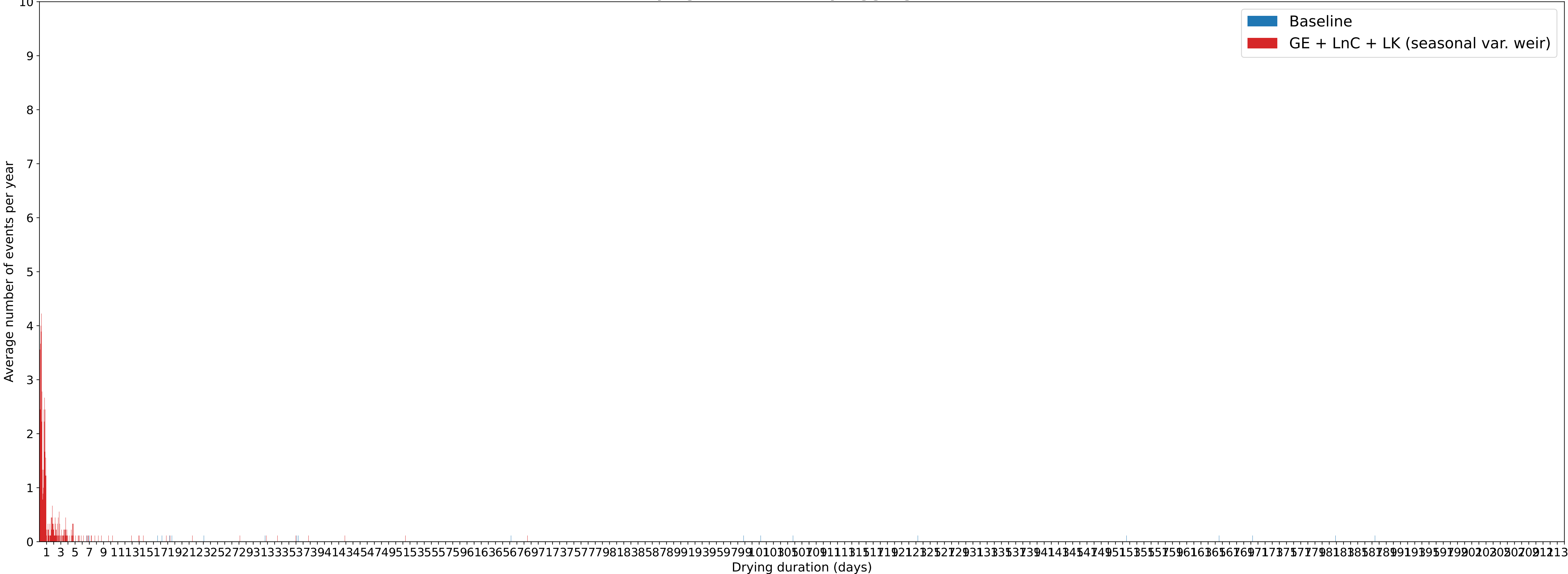
FINAL

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

Figure 2.3

Growing Season - Level [16.10] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



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

Growing Season - 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	13 hr	168 hr (7.0 days)	760 hr (31.7 days)	2959 hr (123.3 days)	4498 hr (187.4 days)
GE + LnC + LK (seasonal var. weir)	1 hr	5 hr	14 hr	30 hr (1.2 days)	130 hr (5.4 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)	0.2	51.8
Sums of 25 - 72 hr (just over 1 day up to 3 days)	0.2	9.7
Sums of 73 - 168 hr (just over 3 days up to 7 days)	0.3	5.8
Sums of > 168 hr (over 1 week)	2.2	2.6

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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 Urquhart Bay Wood - Special Areas Conservation (SAC)
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 Modelled Watercourse
Predicted Water Area (Meters Above Datum)
 16.3m - 5.58ha

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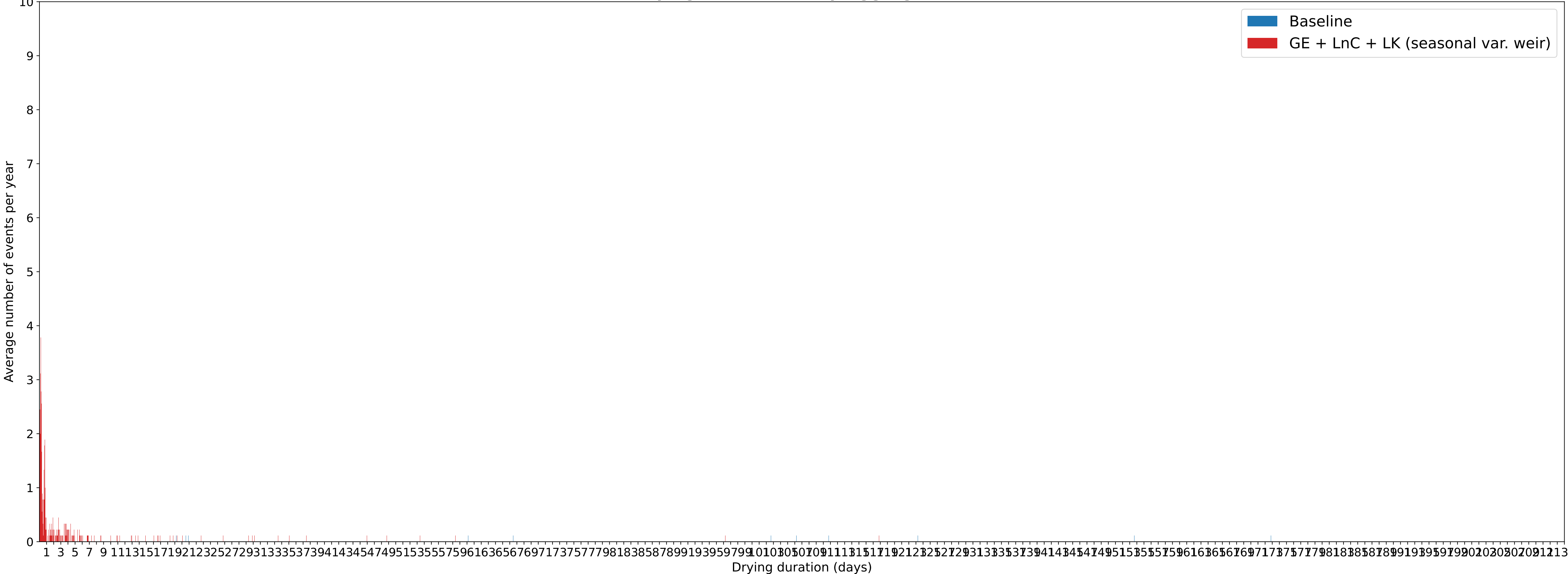
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Urquhart Bay Wood LiDAR Survey -
Predicted Water Areas at 0.2m Level
Bandings

Figure 2.4

Growing Season - Level [16.30] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



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

Growing Season - 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	175 hr (7.3 days)	1444 hr (60.2 days)	2550 hr (106.2 days)	4148 hr (172.8 days)	5136 hr (214.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	5 hr	14 hr	57 hr (2.4 days)	385 hr (16.0 days)

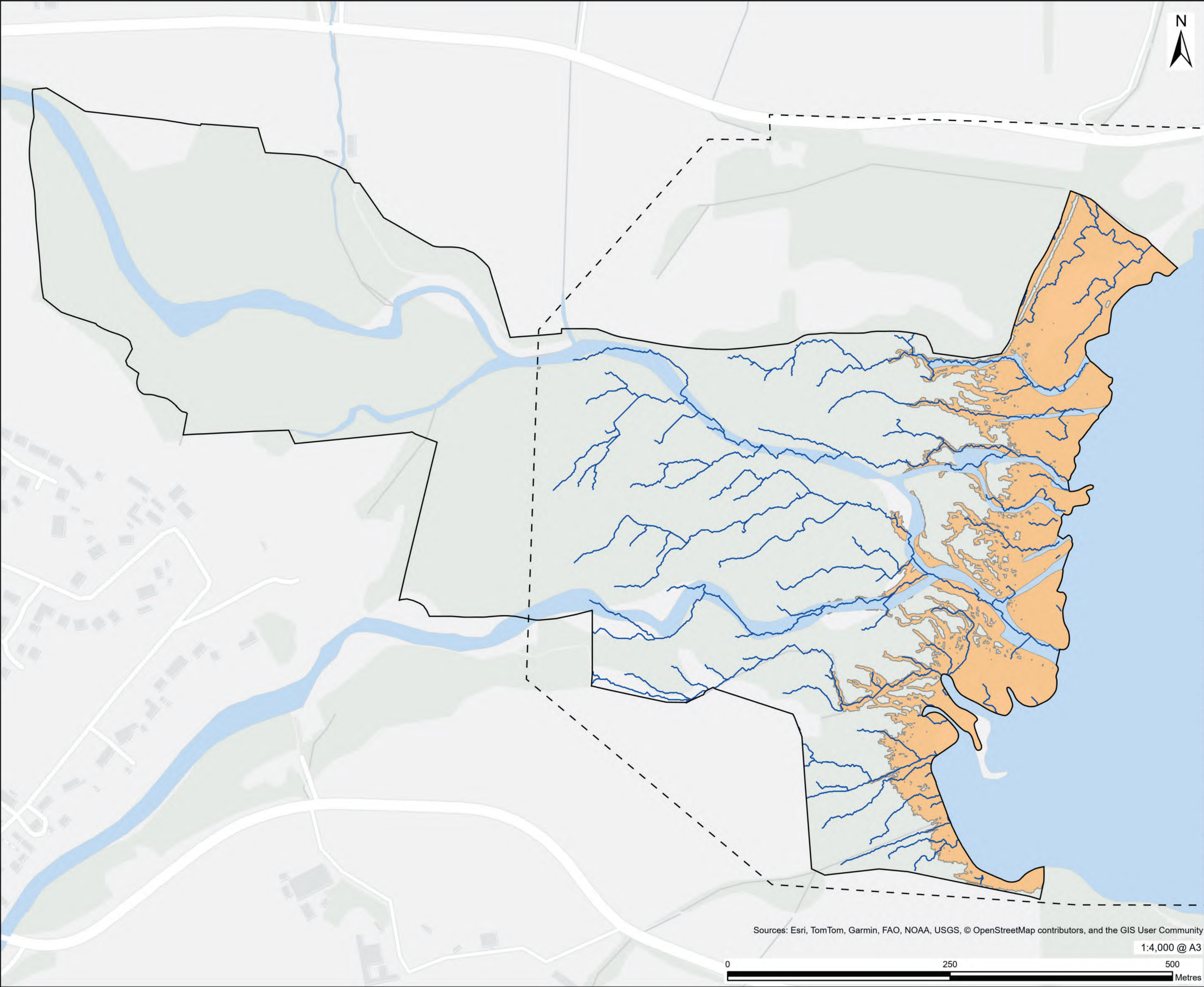
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	32.7
Sums of 25 - 72 hr (just over 1 day up to 3 days)	0.0	5.8
Sums of 73 - 168 hr (just over 3 days up to 7 days)	0.0	6.3
Sums of $>$ 168 hr (over 1 week)	1.8	3.9

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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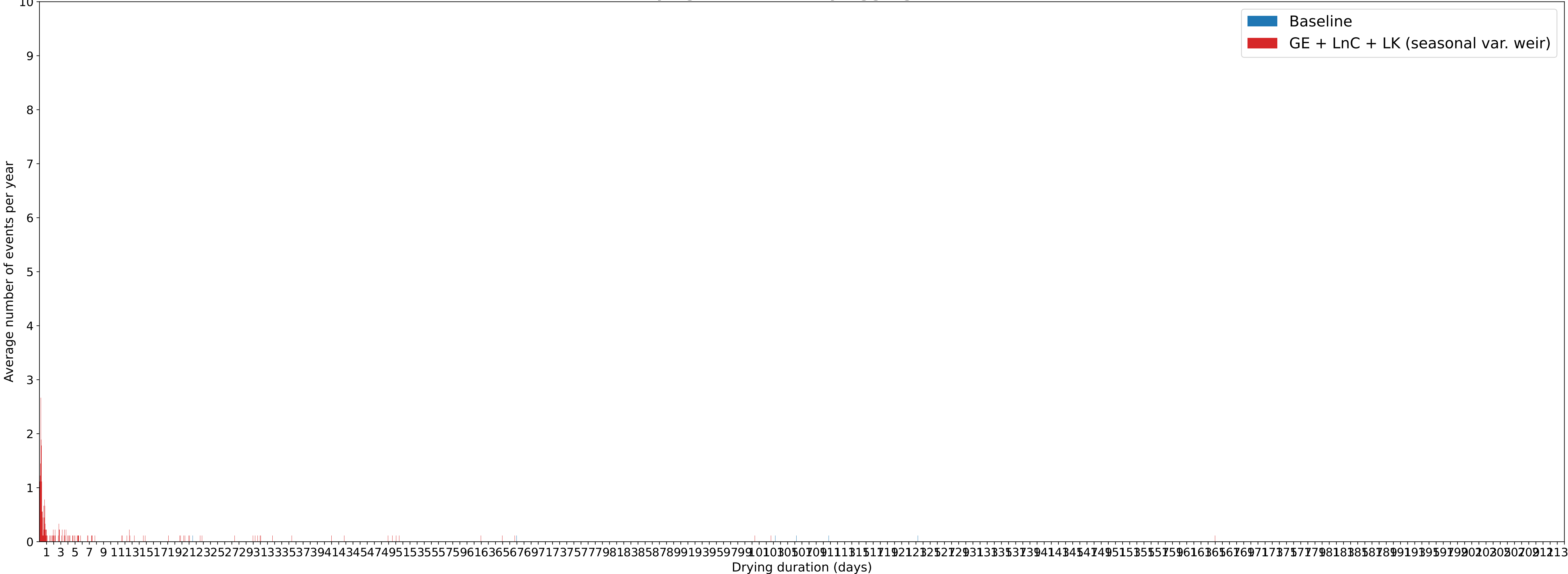
FIGURE TITLE

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

FIGURE NUMBER

Figure 2.5

Growing Season - Level [16.50] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



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

Growing Season - 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	175 hr (7.3 days)	2479 hr (103.3 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)
GE + LnC + LK (seasonal var. weir)	2 hr	5 hr	11 hr	77 hr (3.2 days)	850 hr (35.4 days)

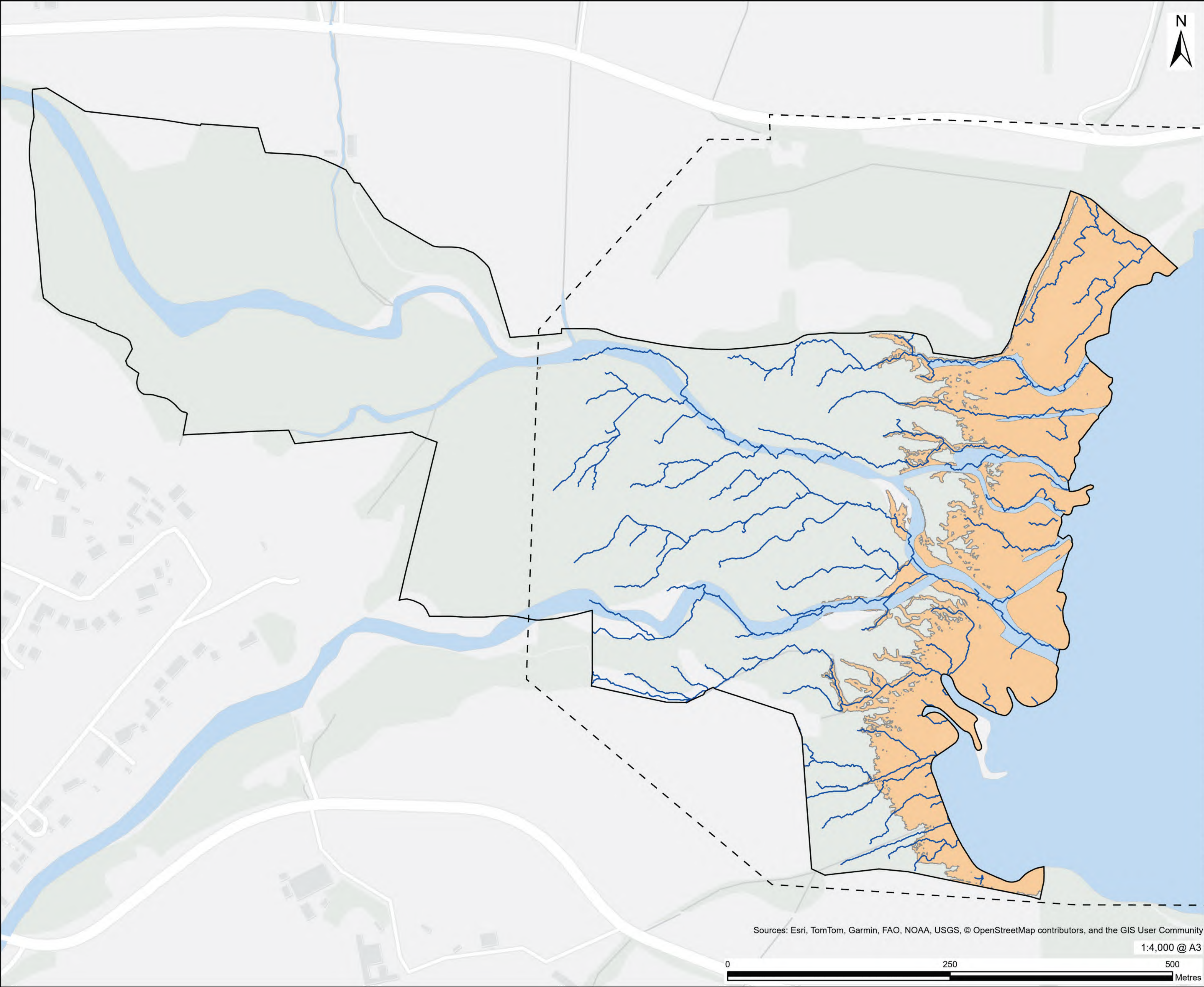
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	19.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	2.3
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	2.8
Sums of > 168 hr (over 1 week)	1.4	4.7

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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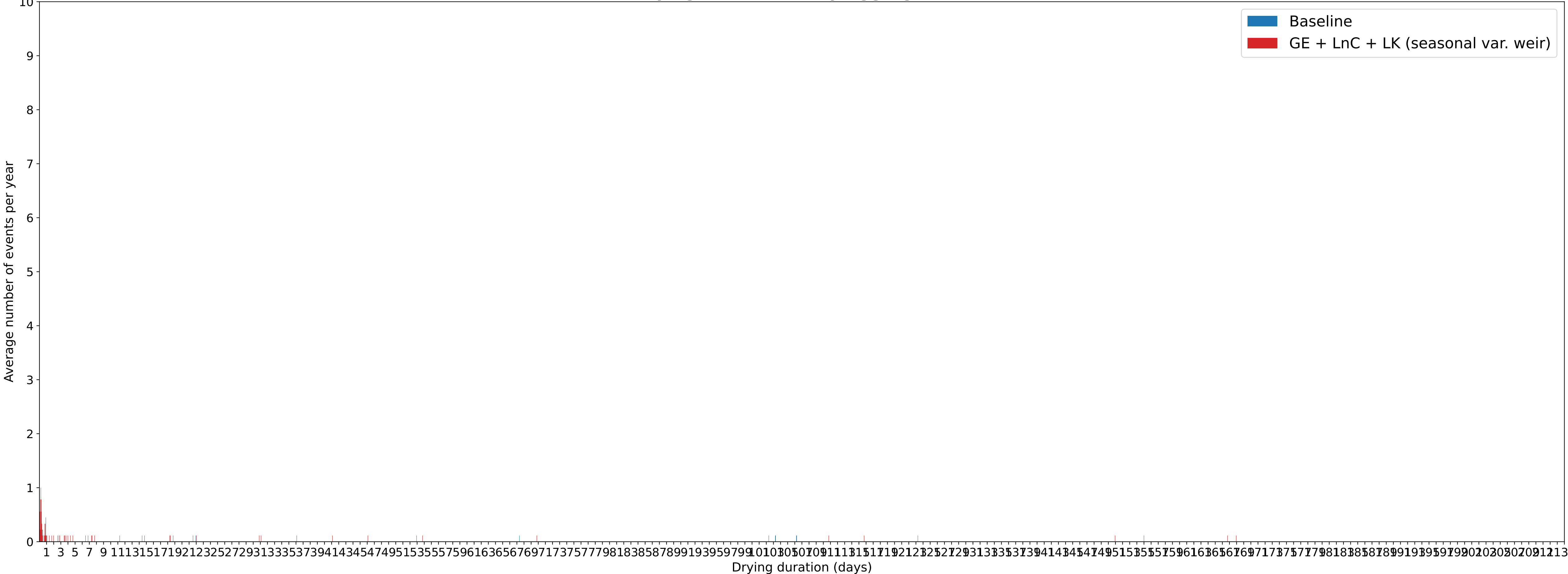
FIGURE TITLE

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

FIGURE NUMBER

Figure 2.6

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



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

Growing Season - 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	175 hr (7.3 days)	2479 hr (103.3 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)
GE + LnC + LK (seasonal var. weir)	2 hr	5 hr	19 hr	177 hr (7.4 days)	2658 hr (110.8 days)

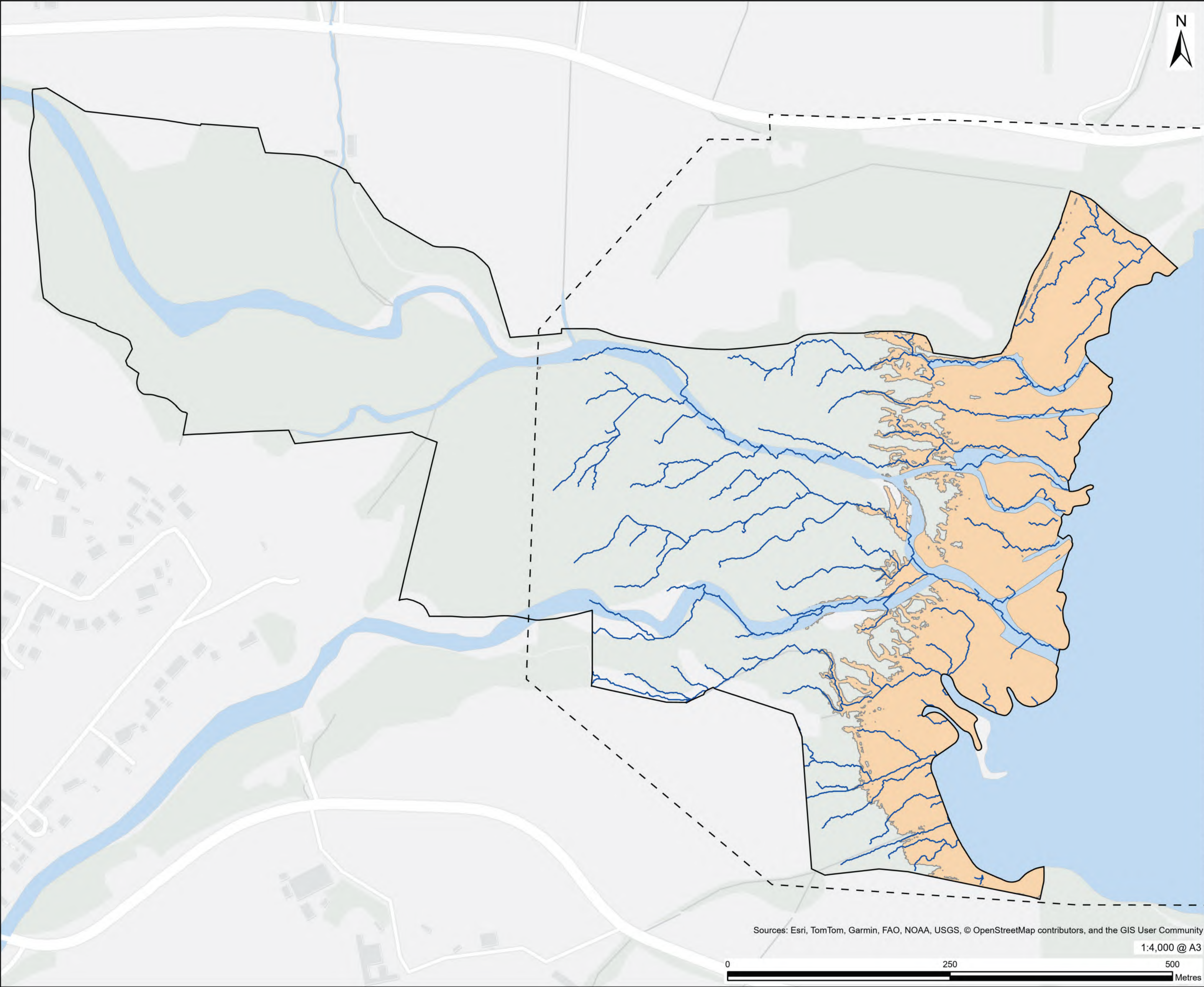
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	6.9
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.8
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.9
Sums of > 168 hr (over 1 week)	1.4	3.1

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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LEGEND

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- Modelled Watercourse

Predicted Water Area (Meters Above Datum)

- 16.9m - 10.44ha

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FIGURE TITLE

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

FIGURE NUMBER

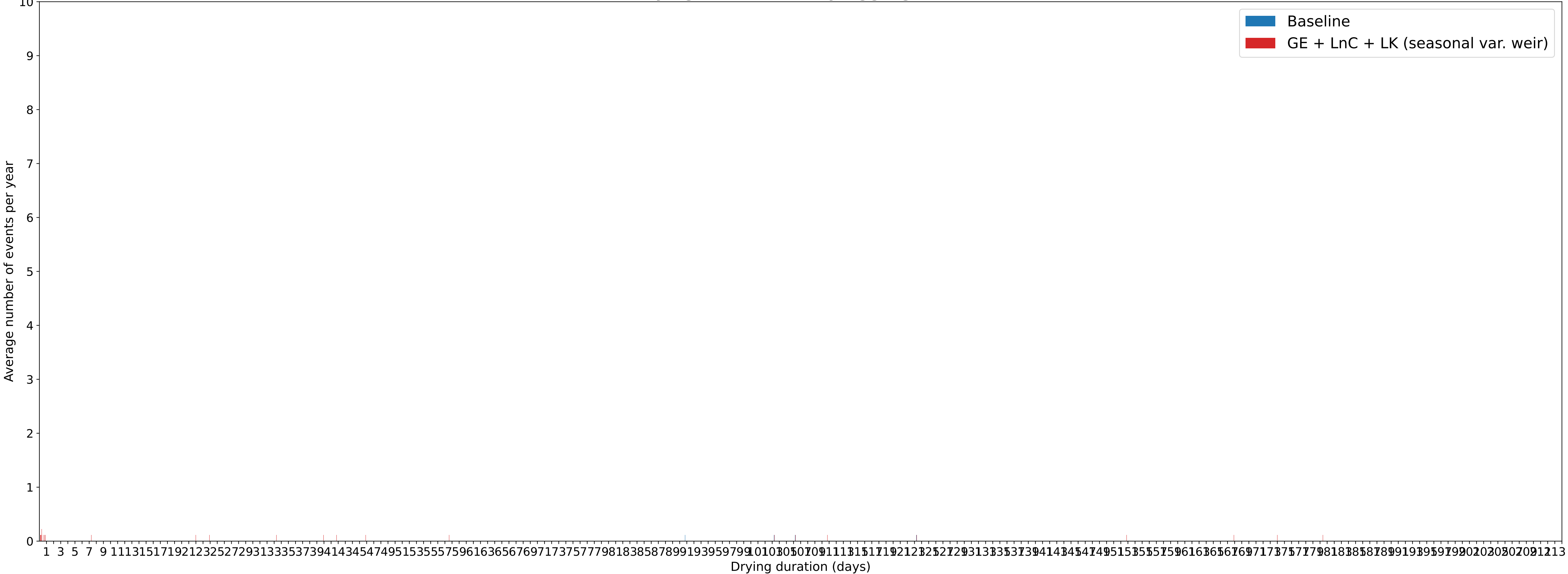
Figure 2.7

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

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



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

Growing Season - 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	175 hr (7.3 days)	2479 hr (103.3 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)
GE + LnC + LK (seasonal var. weir)	5 hr	18 hr	958 hr (39.9 days)	2959 hr (123.3 days)	5136 hr (214.0 days)

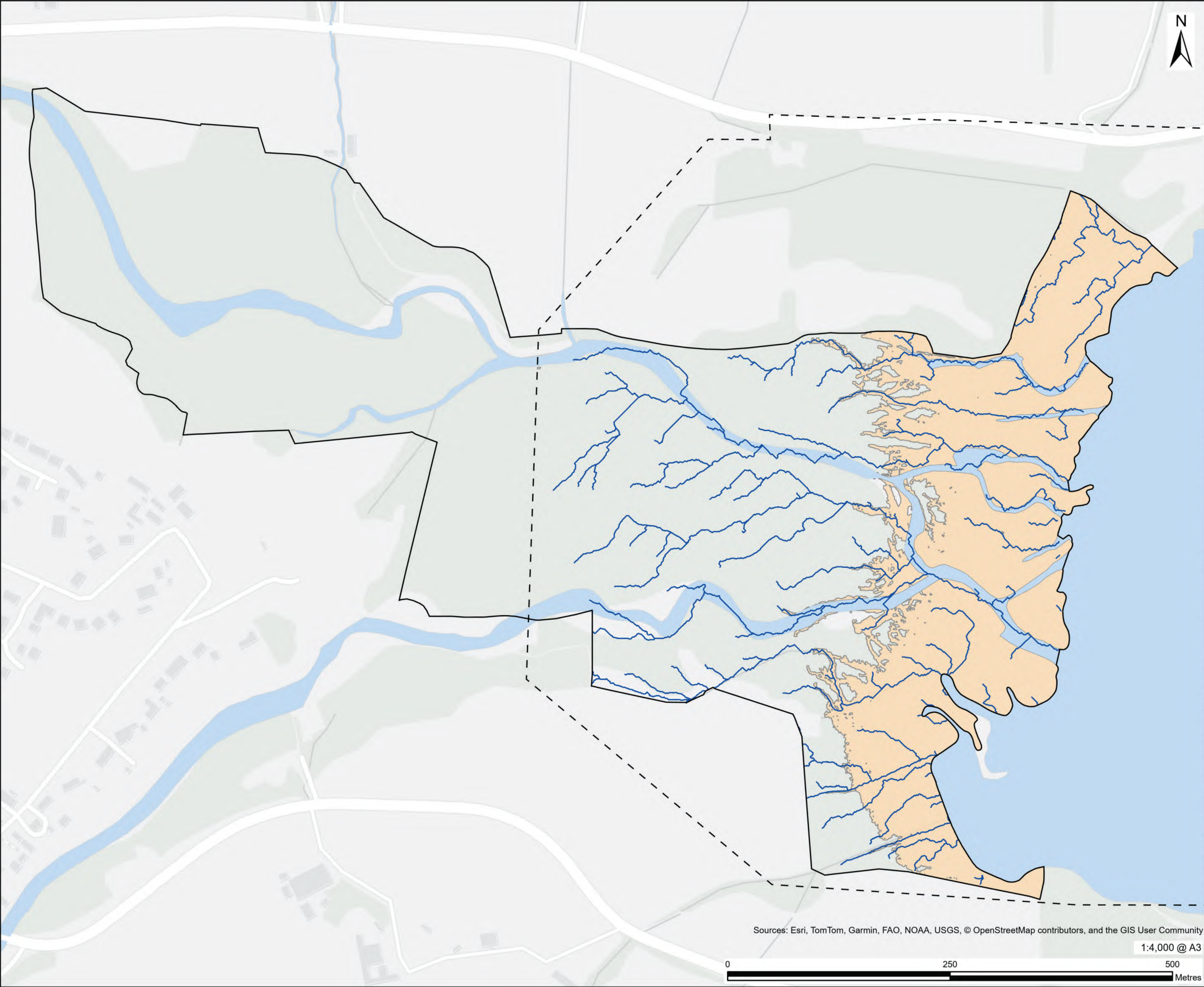
Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.9
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)	1.3	2.0

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





PROJECT

Glen Earrach Pumped Storage Hydro

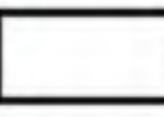
CLIENT

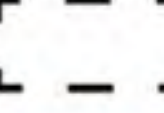
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London, E1 8FA
United Kingdom

LEGEND

 Urquhart Bay Wood - Special Areas of Conservation (SAC)

 LiDAR Survey Extent

 OS OML Surface Water

 Modelled Watercourse

Predicted Water Area (Meters Above Datum)

 17.1m - 11.68ha

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PROJECT NUMBER

60719875

FIGURE TITLE

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

FIGURE NUMBER

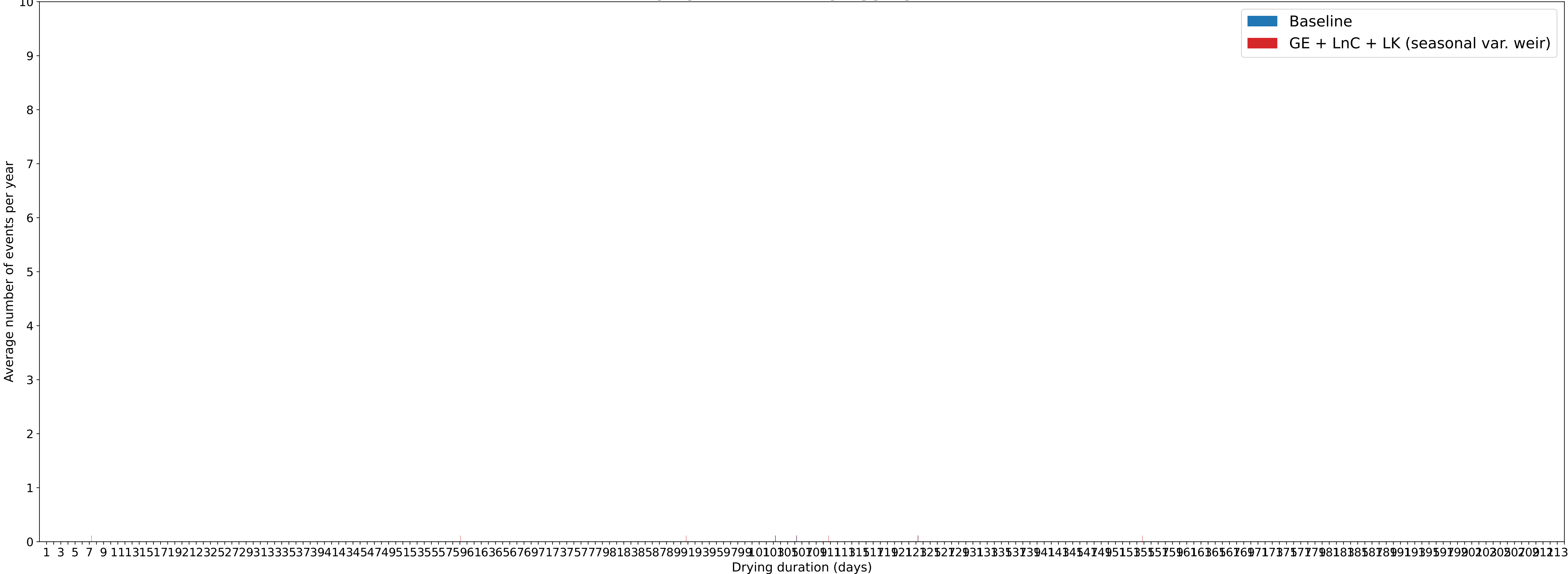
Figure 2.8

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

1:4,000 @ A3

0 250 500 Metres

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



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

Growing Season - 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	175 hr (7.3 days)	2479 hr (103.3 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)
GE + LnC + LK (seasonal var. weir)	175 hr (7.3 days)	2479 hr (103.3 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)

Event counts by duration category
(Average number per year)

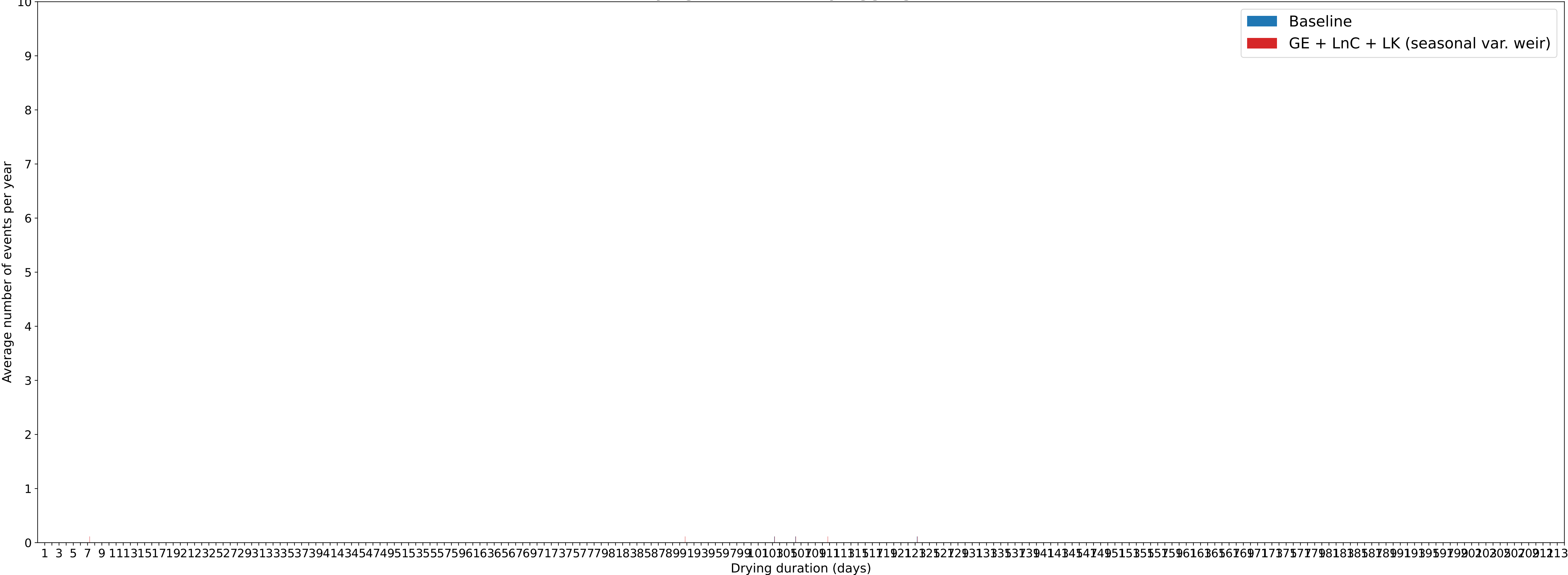
	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	0.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	0.0
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.3	1.4

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

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



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

Growing Season - 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	175 hr (7.3 days)	2550 hr (106.2 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)
GE + LnC + LK (seasonal var. weir)	175 hr (7.3 days)	2550 hr (106.2 days)	2959 hr (123.3 days)	5136 hr (214.0 days)	5136 hr (214.0 days)

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
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Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.0
Sums of > 168 hr (over 1 week)	1.3	1.3

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

AECOM Limited
Aldgate Tower
2, Lemn Street
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)

 17.5m - 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.

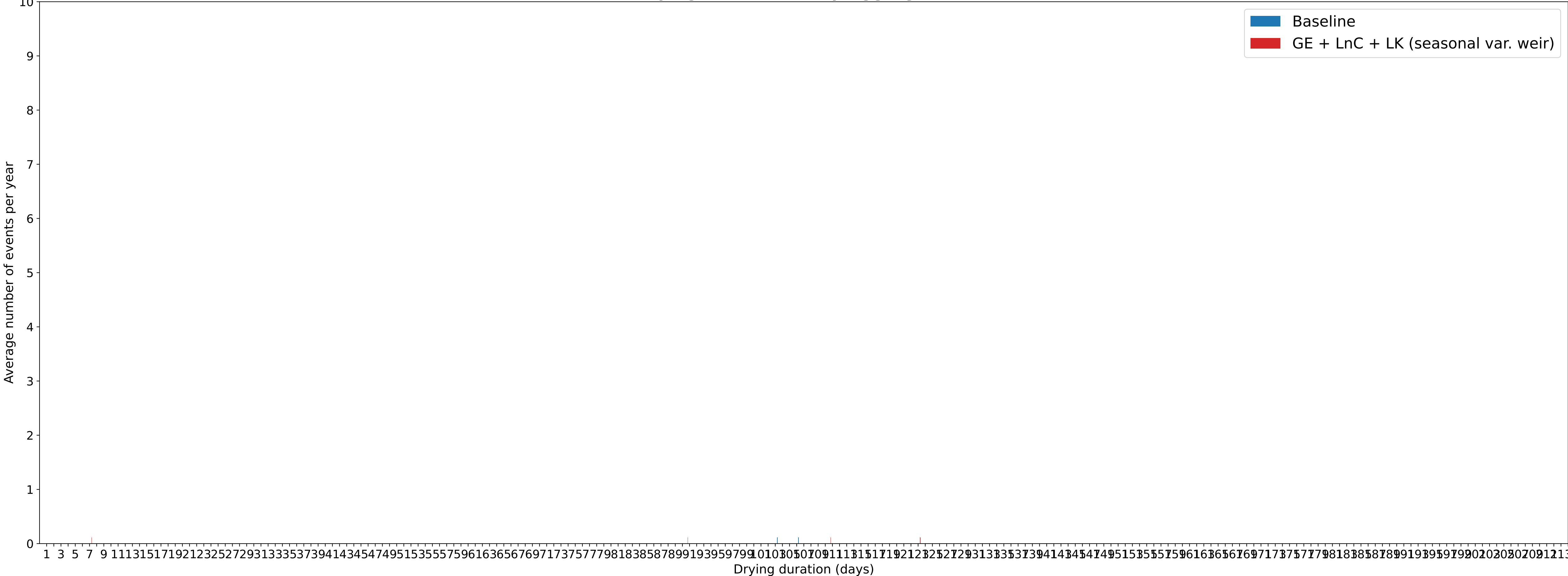
FINAL

60719875

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

Figure 2.10

Growing Season - Level [17.50] m - Seasonal Variable Weir
Drying Events (Hourly Aggregation)



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

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

Event duration summary statistics

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