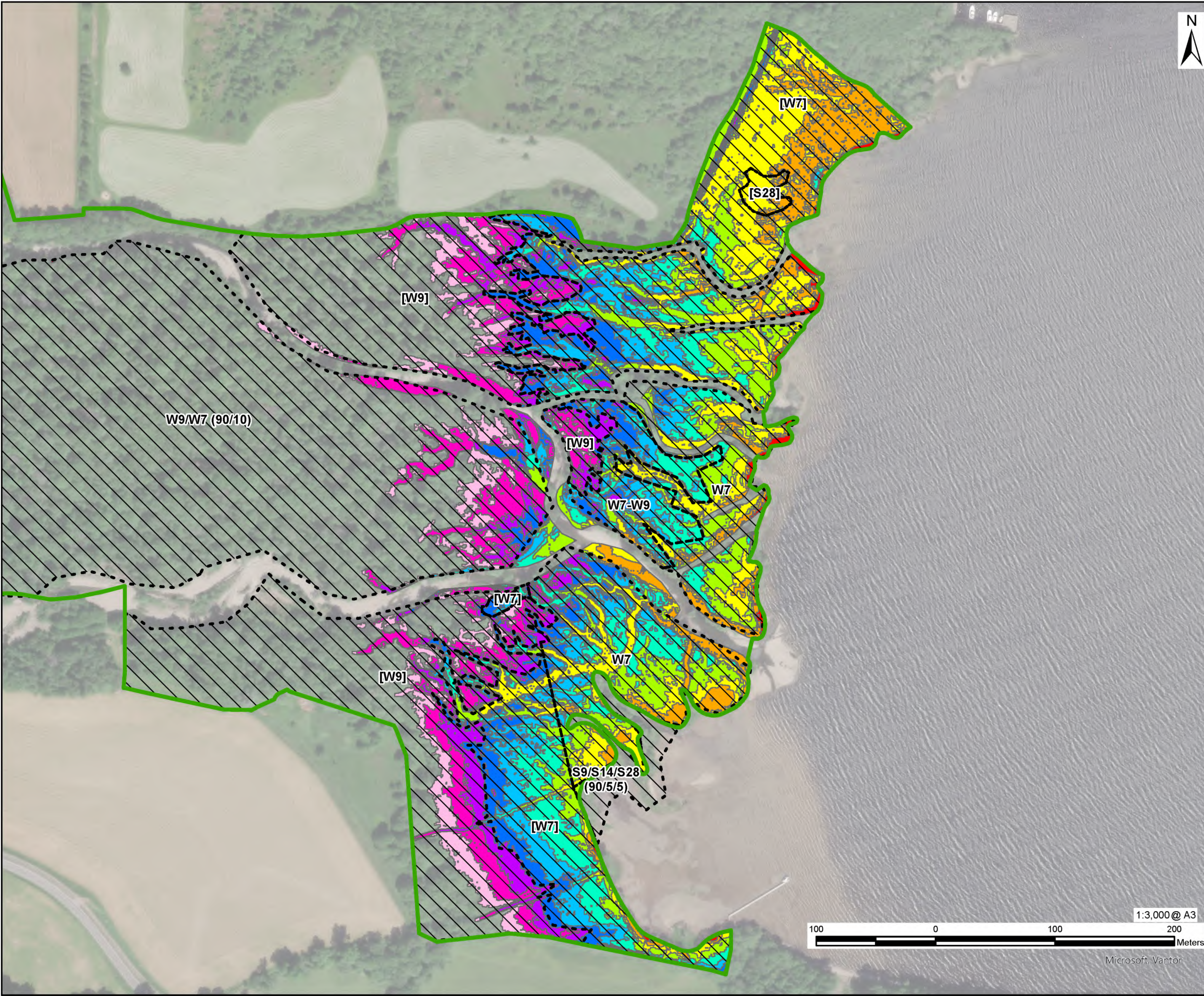


Inundation Event Analysis
LnC + LK + GEE
Seasonal Variable Weir

Autumn
(Sept-Nov)



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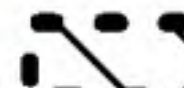
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EH3 5DA
www.aecom.com

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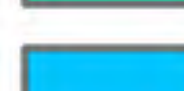
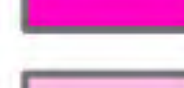
SAC boundary

 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.

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PROJECT NUMBER

60719875

FIGURE TITLE

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

FIGURE NUMBER

Figure 1

1:3,000 @ A3

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

Inundation 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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 OS OML Surface Water
 Modelled Watercourse
 Predicted Water Area (Meters Above Datum)
 15.7m - 0.14ha

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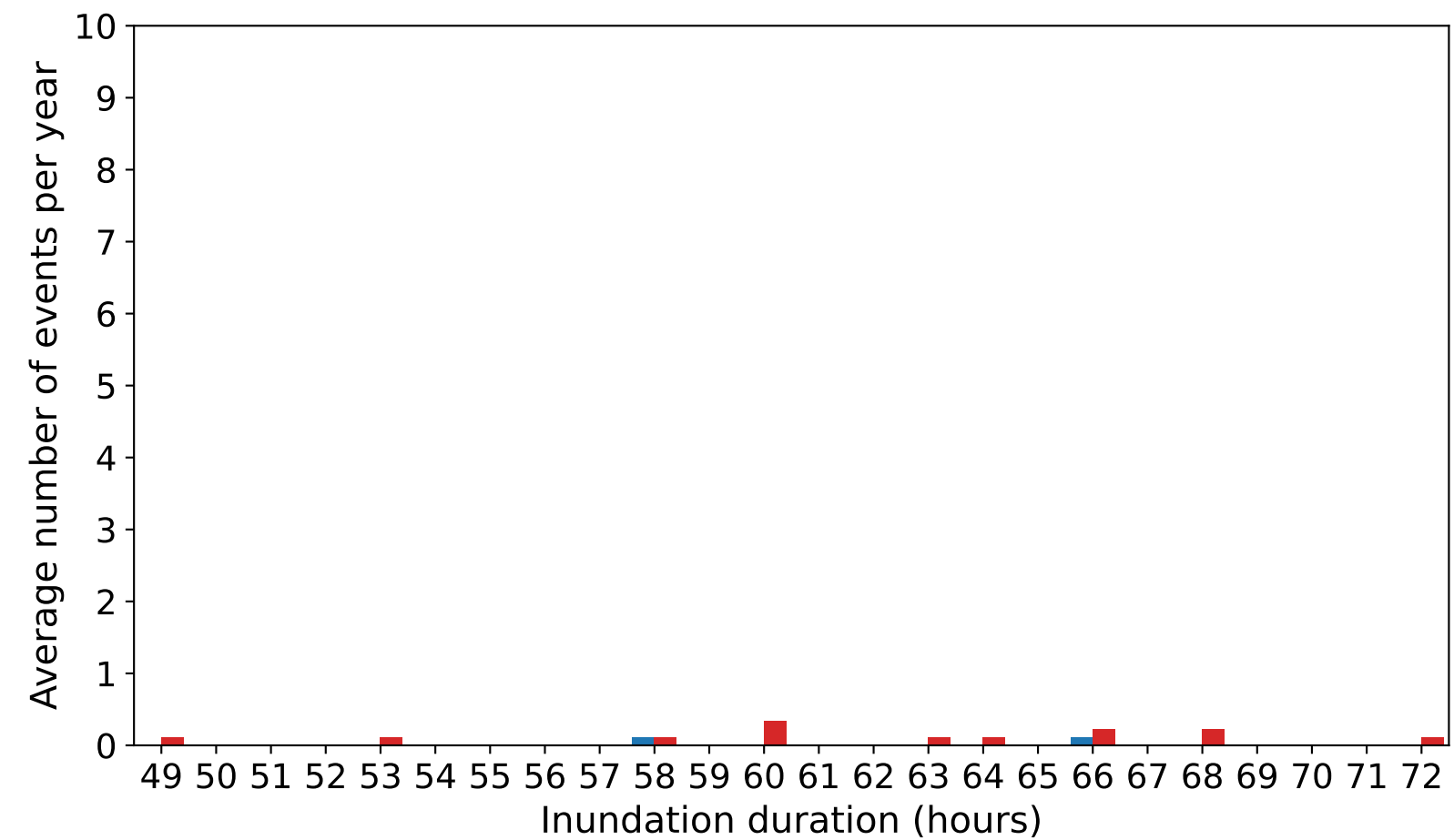
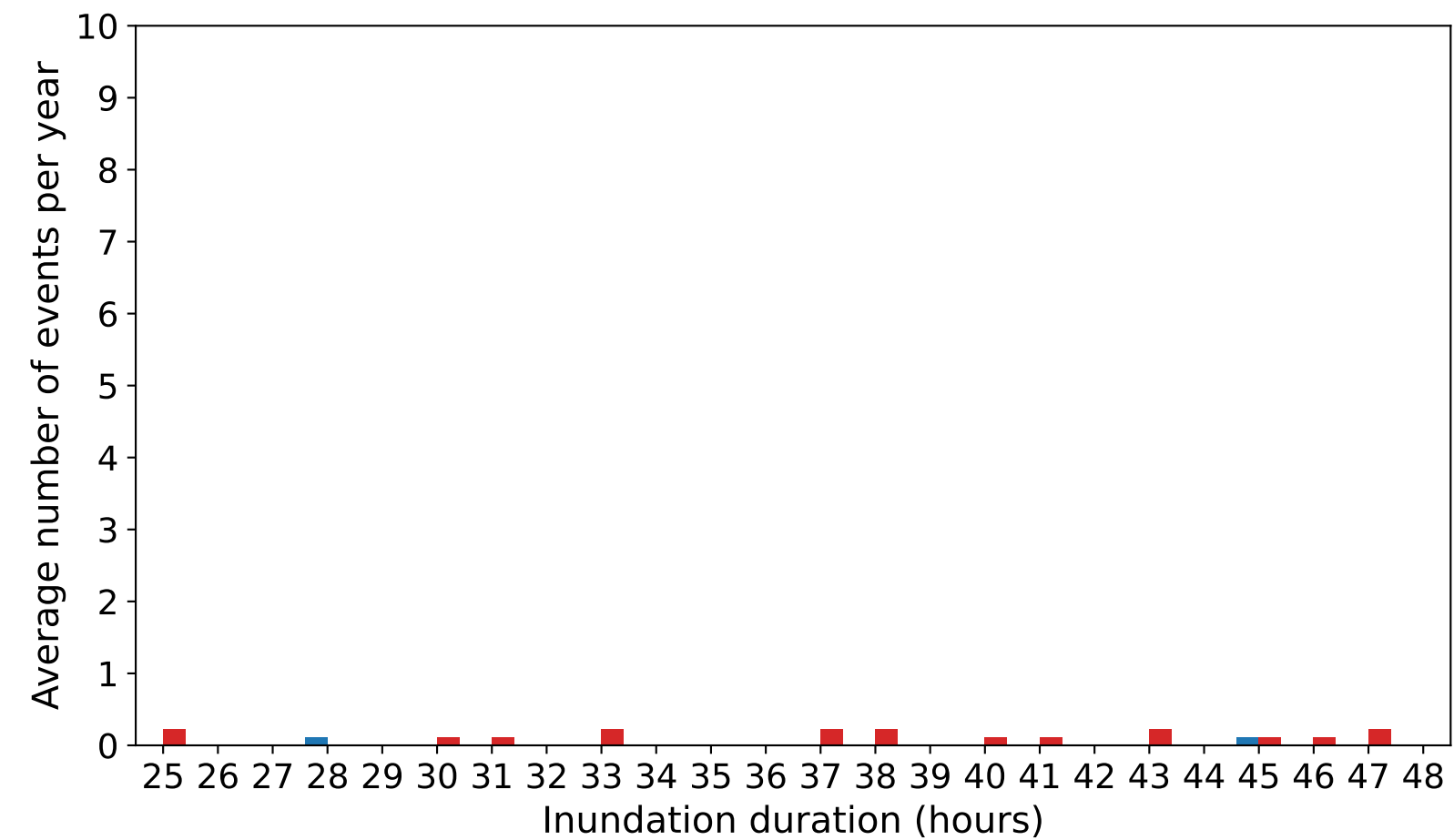
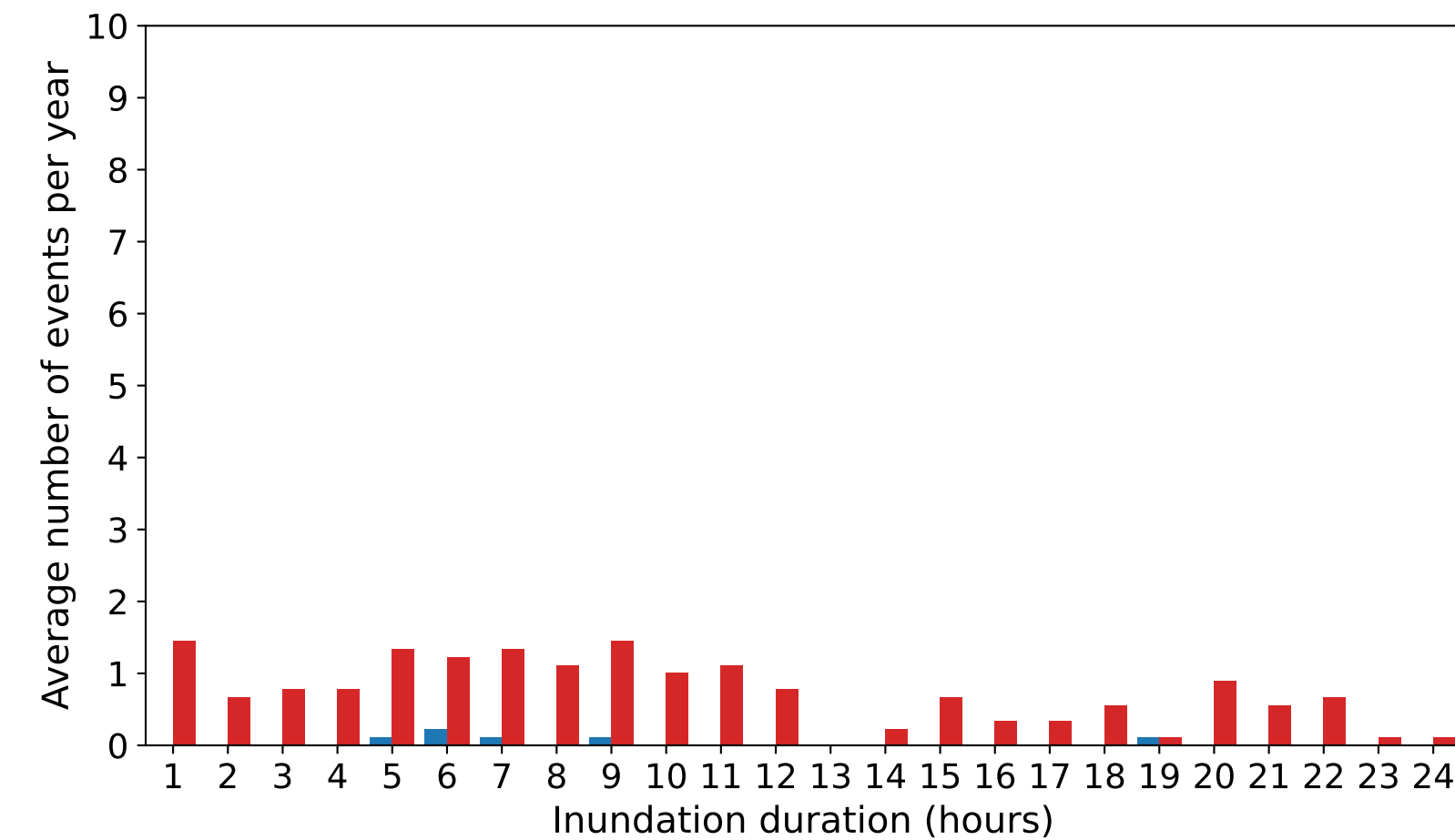
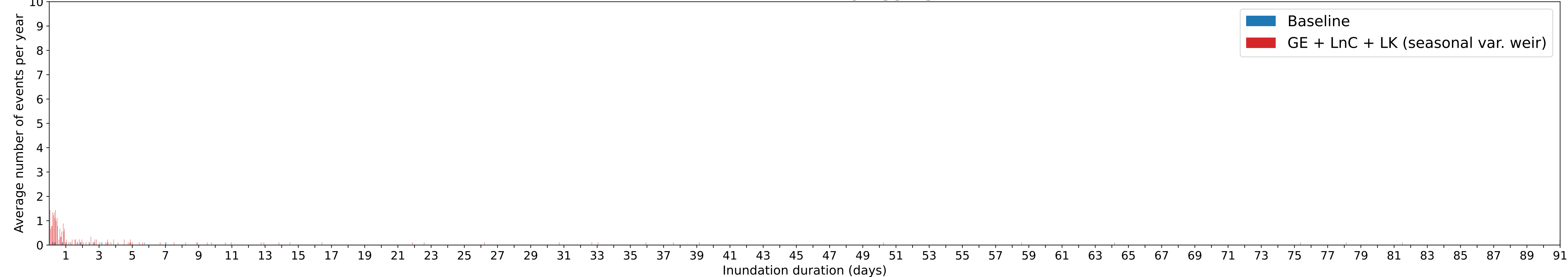
FINAL

60719875

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

Figure 2.1

Autumn - Level [15.70] m - Seasonal Variable Weir
Inundation Events (Hourly Aggregation)



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

**Autumn - Level [15.70] m - Seasonal Variable Weir
Inundation Events (9-year dataset)**

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	6 hr	19 hr	138 hr (5.8 days)	1406 hr (58.6 days)	2184 hr (91.0 days)
GE + LnC + LK (seasonal var. weir)	1 hr	7 hr	12 hr	45 hr (1.9 days)	310 hr (12.9 days)

**Event counts by duration category
(Average number per year)**

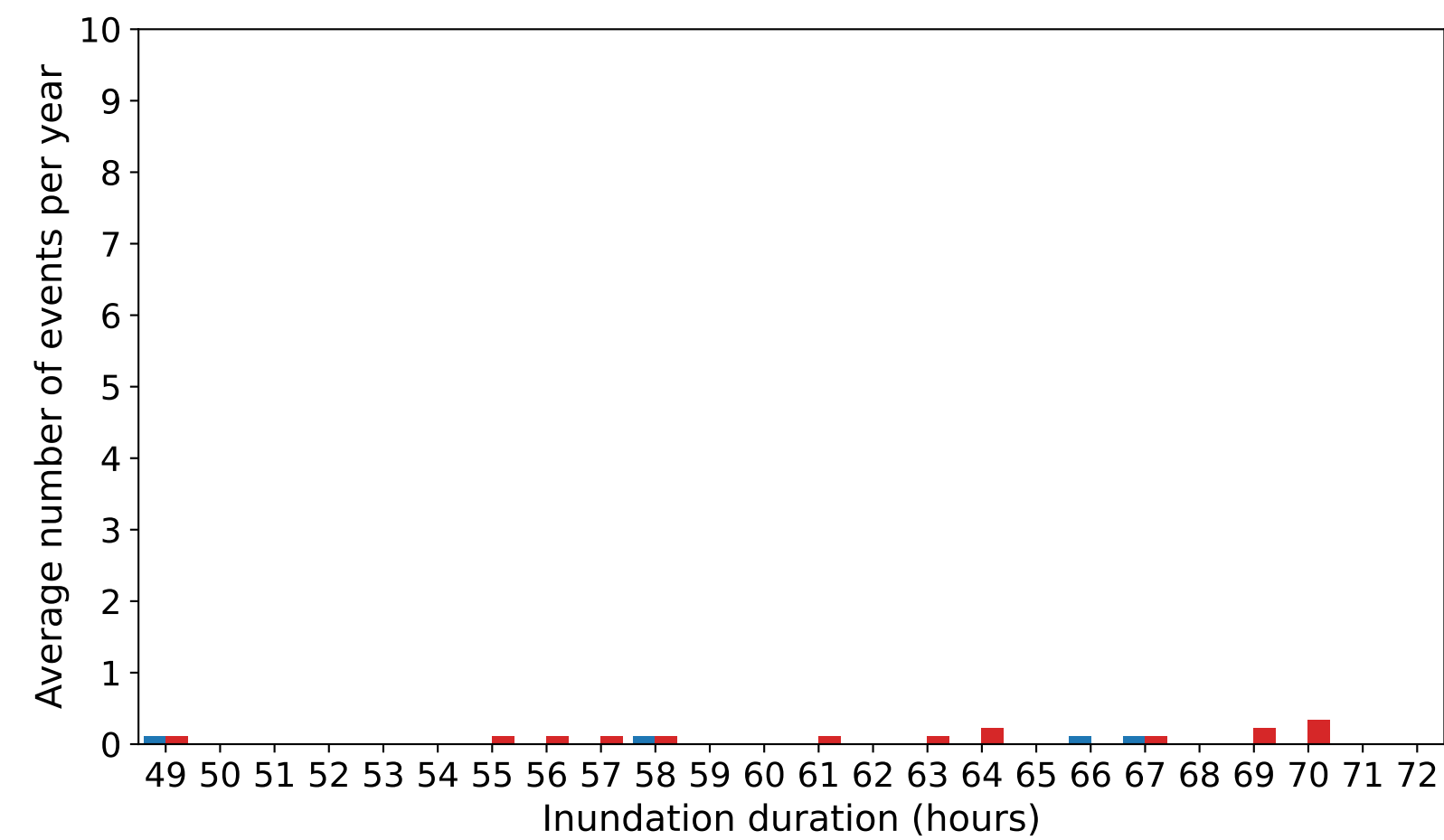
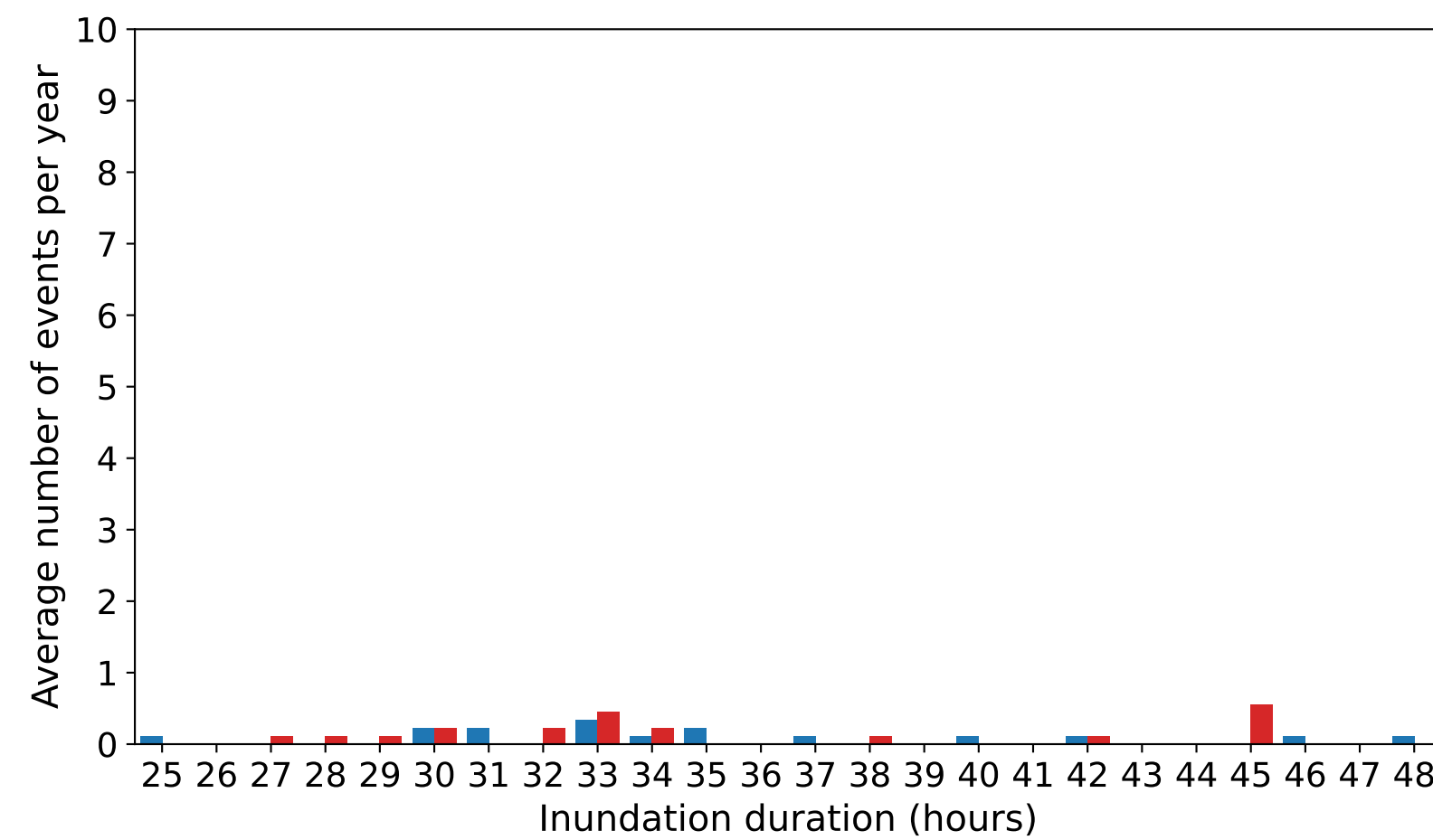
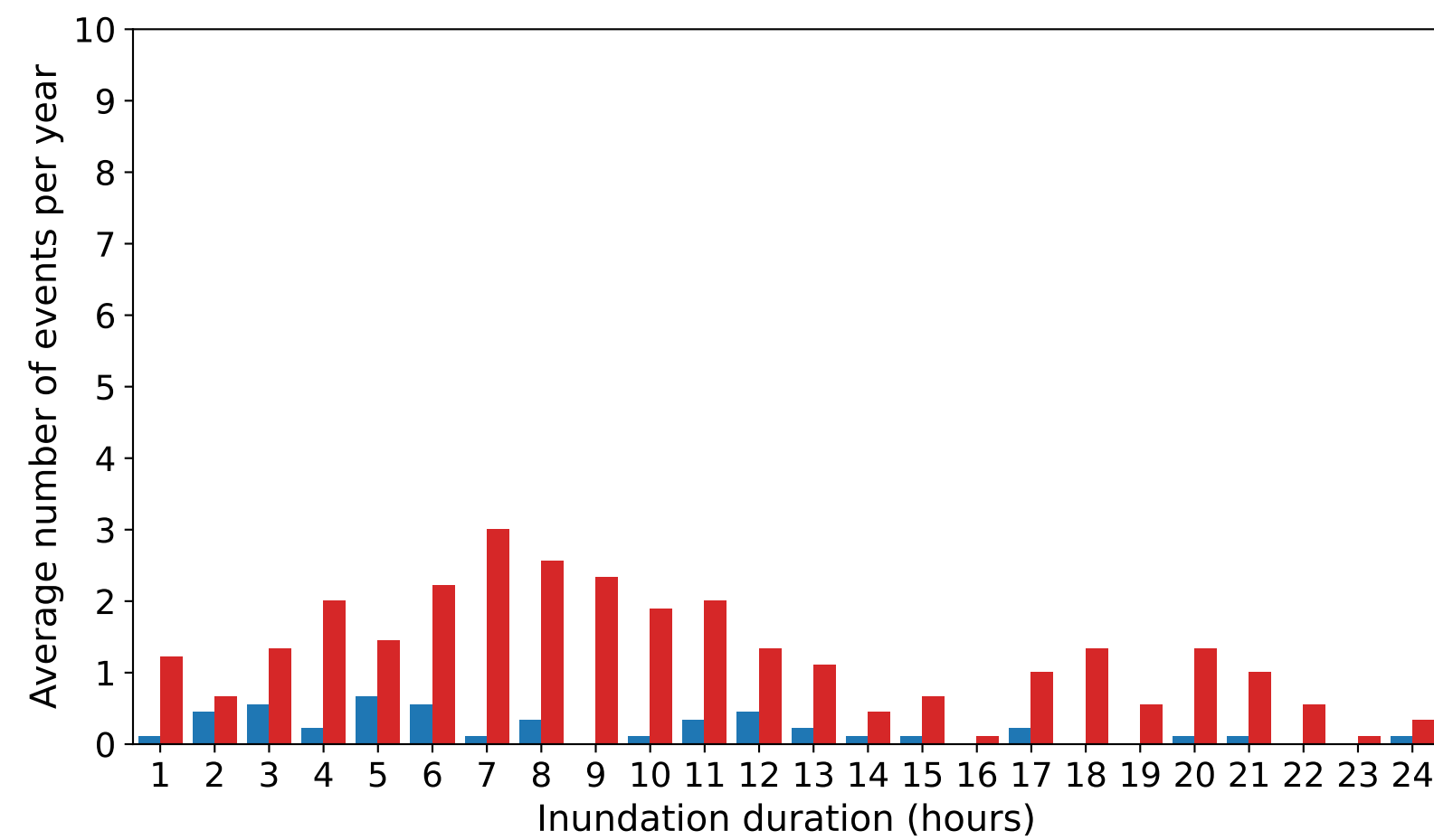
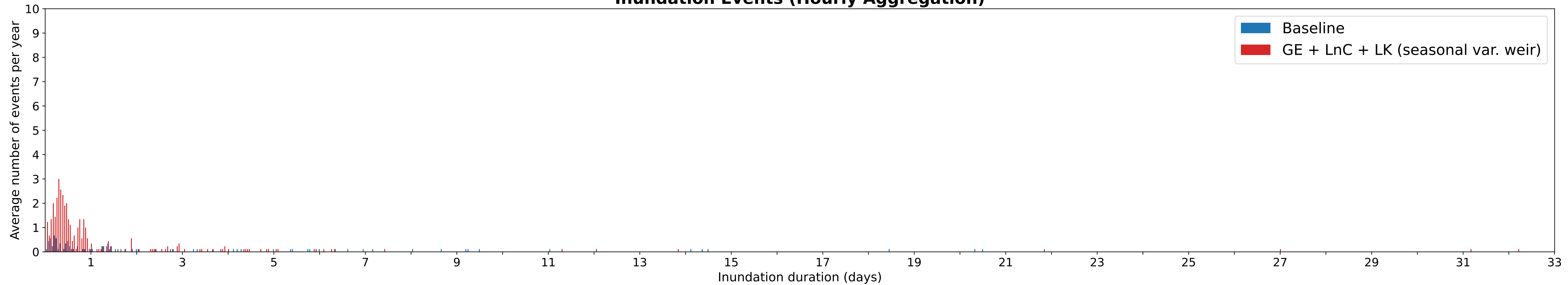
	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.7	17.6
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.4	3.4
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.2	2.4
Sums of > 168 hr (over 1 week)	1.3	2.1

Inundation 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

Autumn - Level [15.90] m - Seasonal Variable Weir Inundation Events (Hourly Aggregation)



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

**Autumn - Level [15.90] m - Seasonal Variable Weir
Inundation Events (9-year dataset)**

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	2 hr	7 hr	30 hr (1.2 days)	103 hr (4.3 days)	345 hr (14.4 days)
GE + LnC + LK (seasonal var. weir)	3 hr	7 hr	11 hr	20 hr	113 hr (4.7 days)

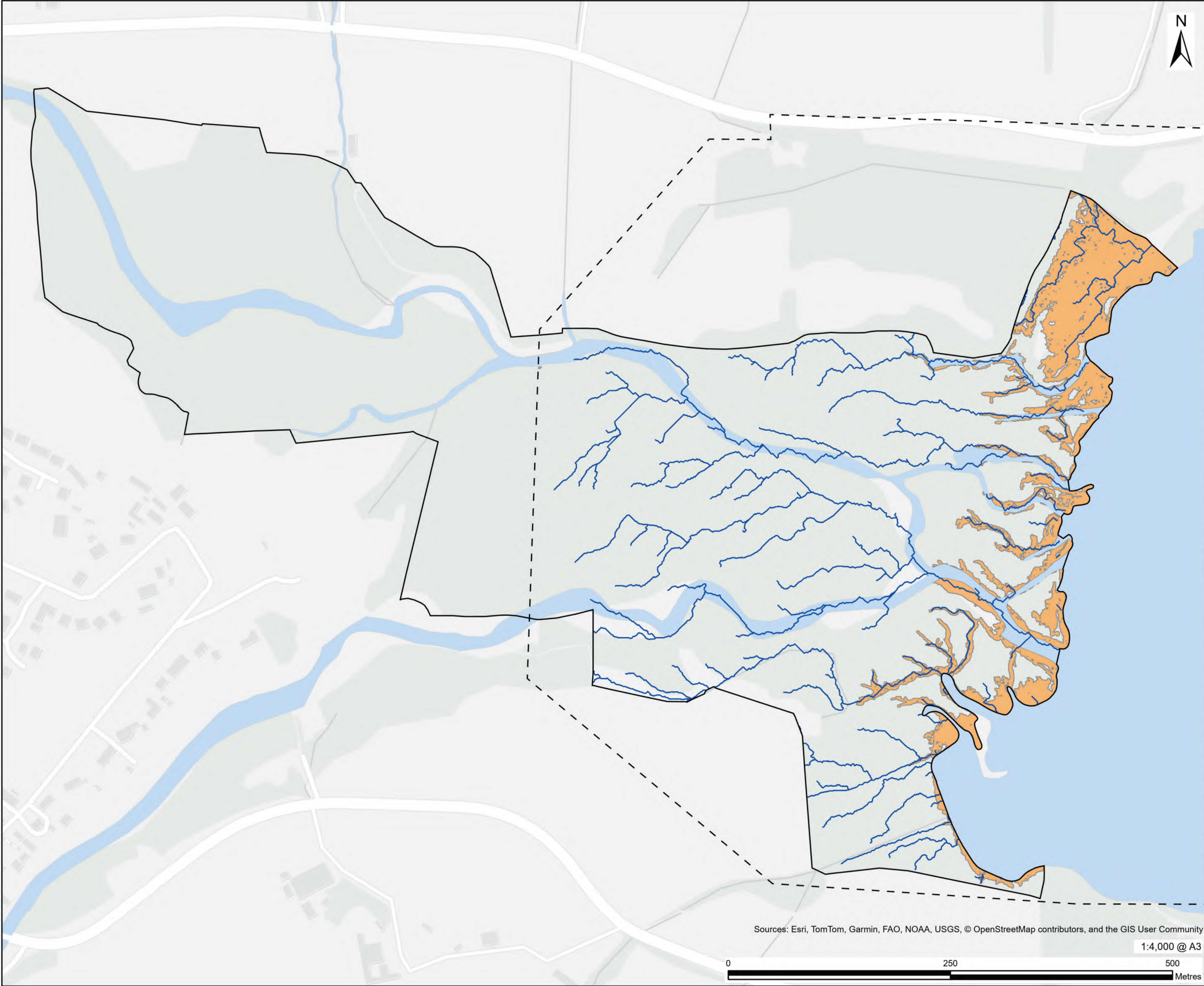
**Event counts by duration category
(Average number per year)**

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	4.9	30.6
Sums of 25 – 72 hr (just over 1 day up to 3 days)	2.2	3.9
Sums of 73 – 168 hr (just over 3 days up to 7 days)	1.7	2.7
Sums of > 168 hr (over 1 week)	1.4	0.9

Inundation 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

Glen Earrach Pumped Storage Hydro

CLIENT

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 LiDAR Survey Extent
 OS OML Surface Water
 Modelled Watercourse
 Predicted Water Area (Meters Above Datum)
16.1m - 3.63ha

NOTES

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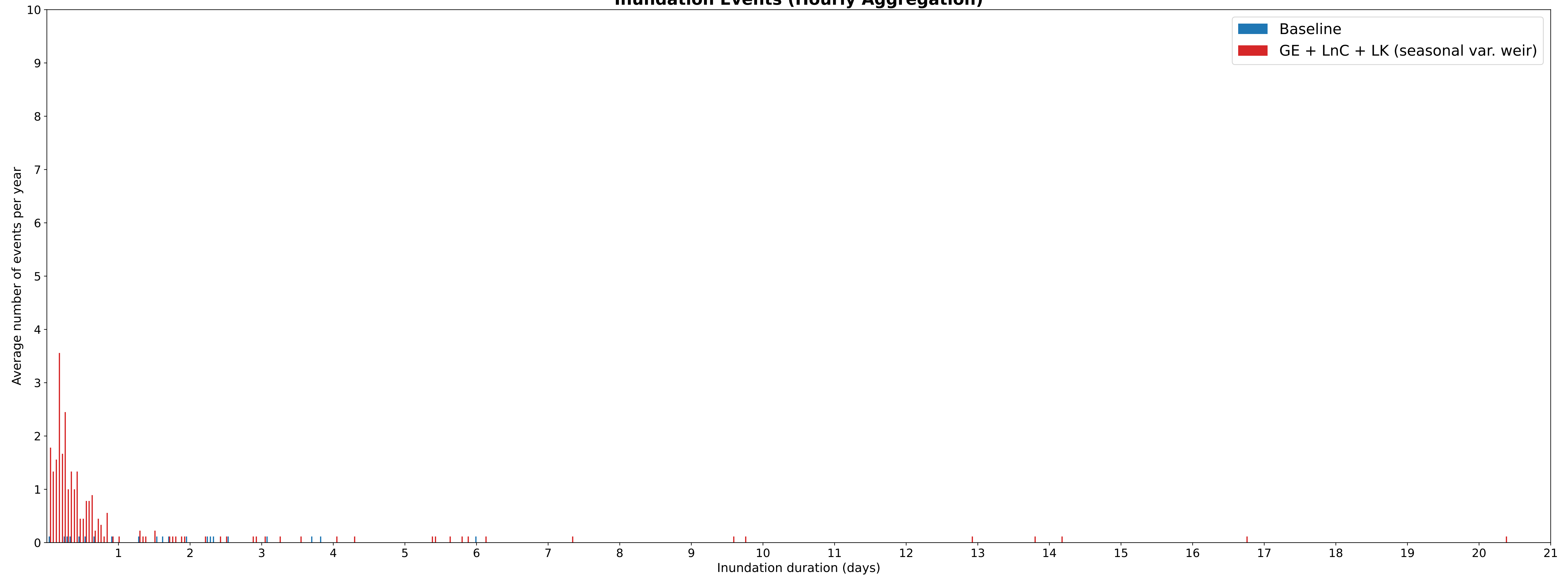
FIGURE TITLE

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

FIGURE NUMBER

Figure 2.3

Autumn - Level [16.10] m - Seasonal Variable Weir Inundation Events (Hourly Aggregation)



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

**Autumn - Level [16.10] m - Seasonal Variable Weir
Inundation Events (9-year dataset)**

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	6 hr	13 hr	39 hr (1.6 days)	56 hr (2.3 days)	92 hr (3.8 days)
GE + LnC + LK (seasonal var. weir)	1 hr	4 hr	7 hr	15 hr	135 hr (5.6 days)

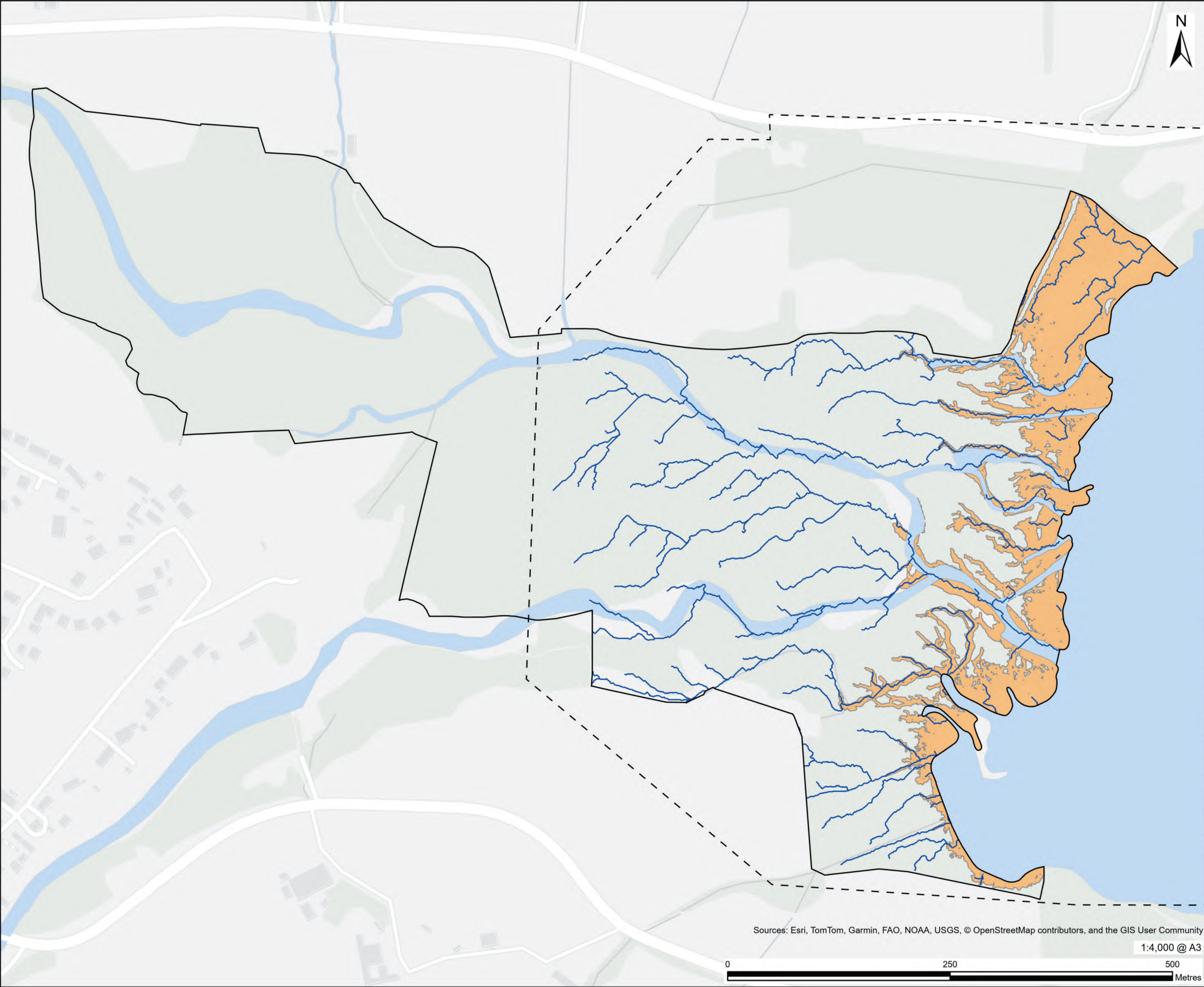
**Event counts by duration category
(Average number per year)**

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.9	22.2
Sums of 25 – 72 hr (just over 1 day up to 3 days)	1.0	1.8
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.4	1.2
Sums of $>$ 168 hr (over 1 week)	0.0	0.9

Inundation 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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FIGURE TITLE

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

FIGURE NUMBER

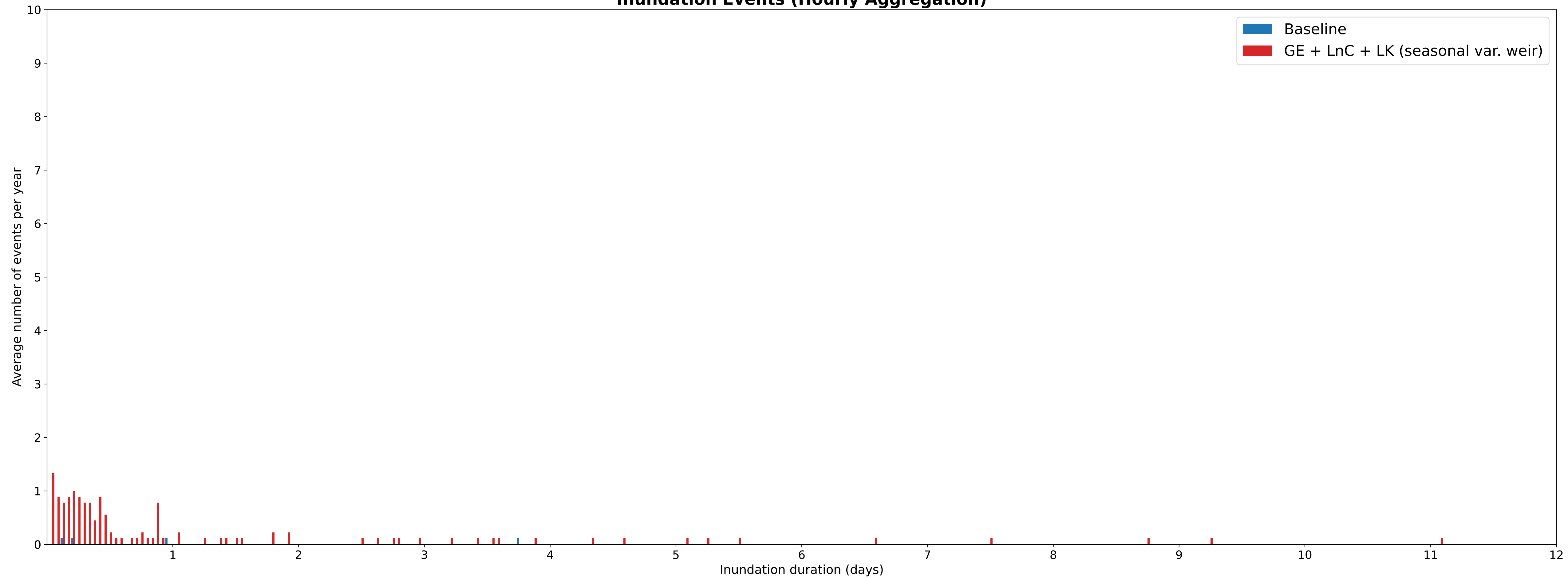
Figure 2.4

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

1:4,000 @ A3

0 250 500 Metres

Autumn - Level [16.30] m - Seasonal Variable Weir Inundation Events (Hourly Aggregation)



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

**Autumn - Level [16.30] m - Seasonal Variable Weir
Inundation Events (9-year dataset)**

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	3 hr	3 hr	5 hr	23 hr	90 hr (3.8 days)
GE + LnC + LK (seasonal var. weir)	1 hr	4 hr	8 hr	21 hr	126 hr (5.2 days)

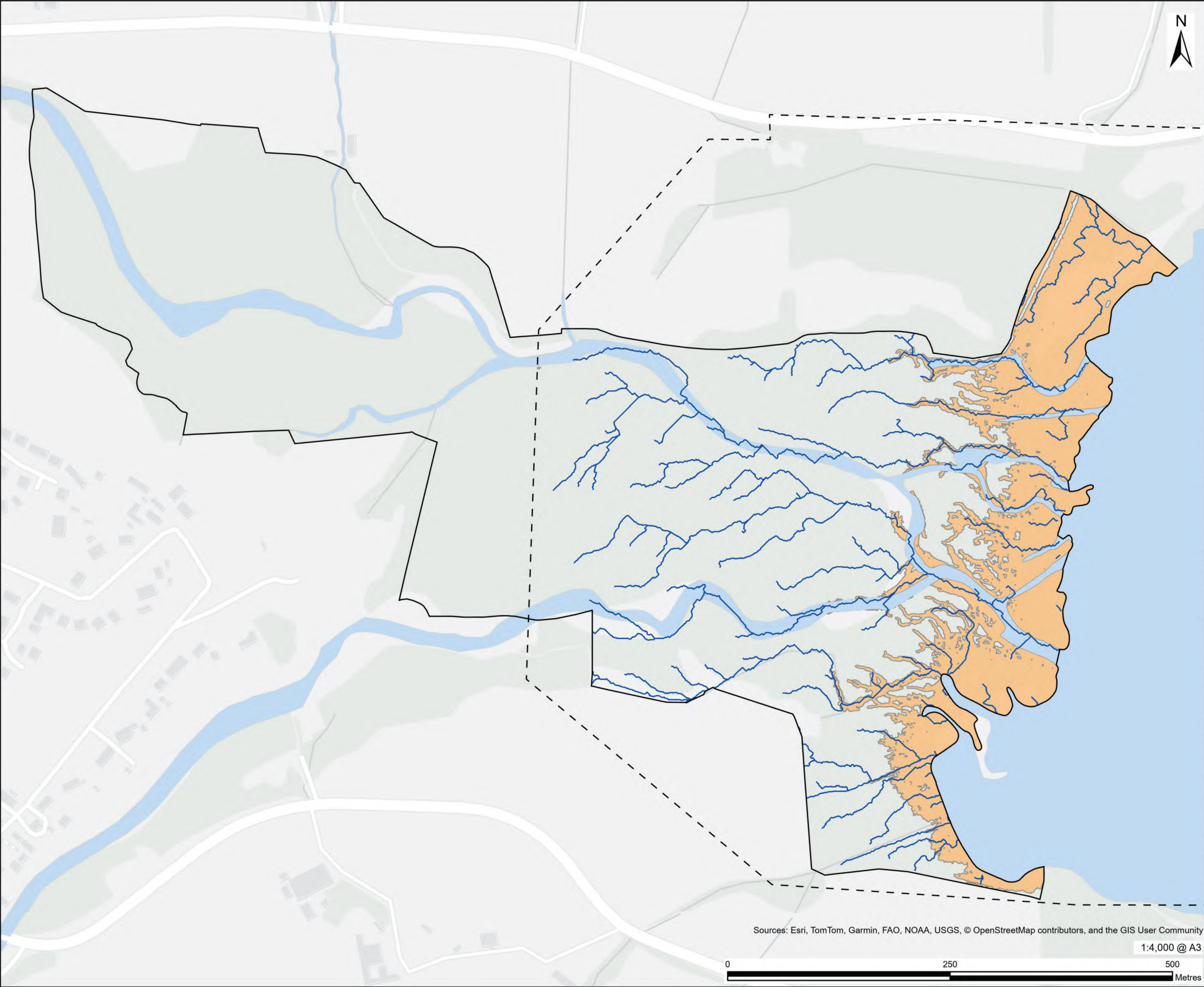
**Event counts by duration category
(Average number per year)**

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.3	11.2
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.0	1.8
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.1	1.2
Sums of > 168 hr (over 1 week)	0.0	0.4

Inundation 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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ISSUE PURPOSE

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FIGURE TITLE

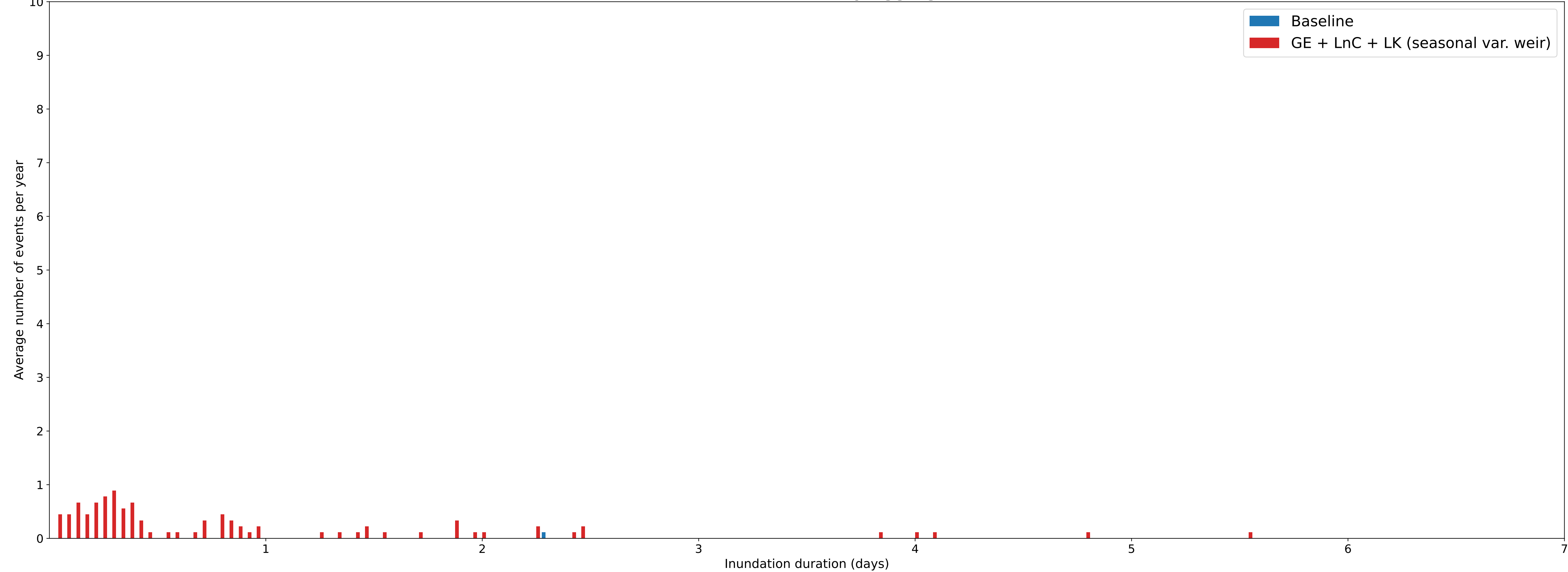
Urquhart Bay Wood LiDAR Survey - Predicted Water Areas at 0.2m Level Bandings

FIGURE NUMBER

Figure 2.5

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**Autumn - Level [16.50] m - Seasonal Variable Weir
Inundation Events (Hourly Aggregation)**



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

Autumn - Level [16.50] m - Seasonal Variable Weir
Inundation Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	55 hr (2.3 days)	55 hr (2.3 days)	55 hr (2.3 days)	55 hr (2.3 days)	55 hr (2.3 days)
GE + LnC + LK (seasonal var. weir)	2 hr	5 hr	9 hr	23 hr	92 hr (3.8 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	8.0
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.1	1.9
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.6
Sums of > 168 hr (over 1 week)	0.0	0.0

Inundation 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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Predicted Water Area (Meters Above Datum)

 16.7m - 9.06ha

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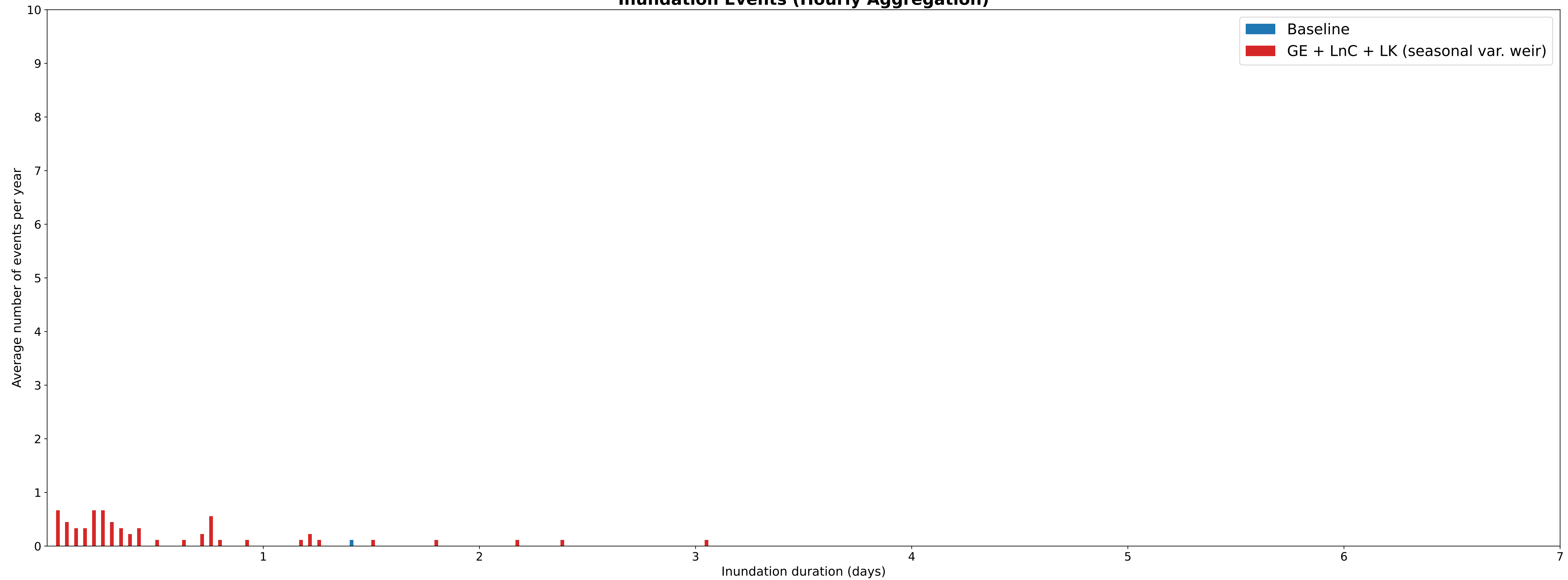
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Urquhart Bay Wood LiDAR Survey -
Predicted Water Areas at 0.2m Level
Bandings

Figure 2.6

Autumn - Level [16.70] m - Seasonal Variable Weir Inundation Events (Hourly Aggregation)



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

**Autumn - Level [16.70] m - Seasonal Variable Weir
Inundation Events (9-year dataset)**

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	34 hr (1.4 days)	34 hr (1.4 days)	34 hr (1.4 days)	34 hr (1.4 days)	34 hr (1.4 days)
GE + LnC + LK (seasonal var. weir)	1 hr	4 hr	7 hr	18 hr	52 hr (2.2 days)

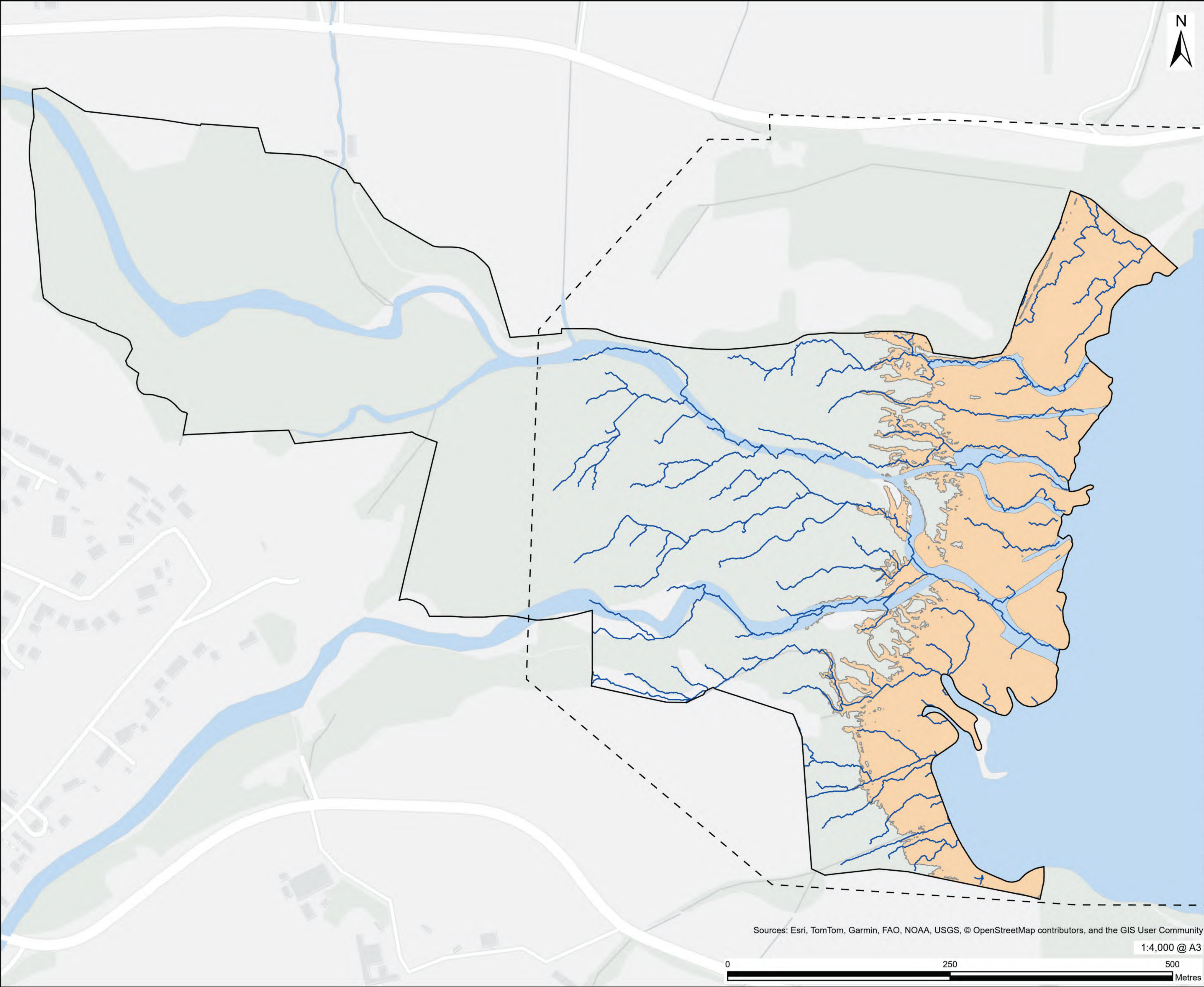
**Event counts by duration category
(Average number per year)**

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of $\leq$ 24 hr (up to 1 day)	0.0	5.7
Sums of 25 – 72 hr (just over 1 day up to 3 days)	0.1	0.9
Sums of 73 – 168 hr (just over 3 days up to 7 days)	0.0	0.1
Sums of > 168 hr (over 1 week)	0.0	0.0

Inundation 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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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

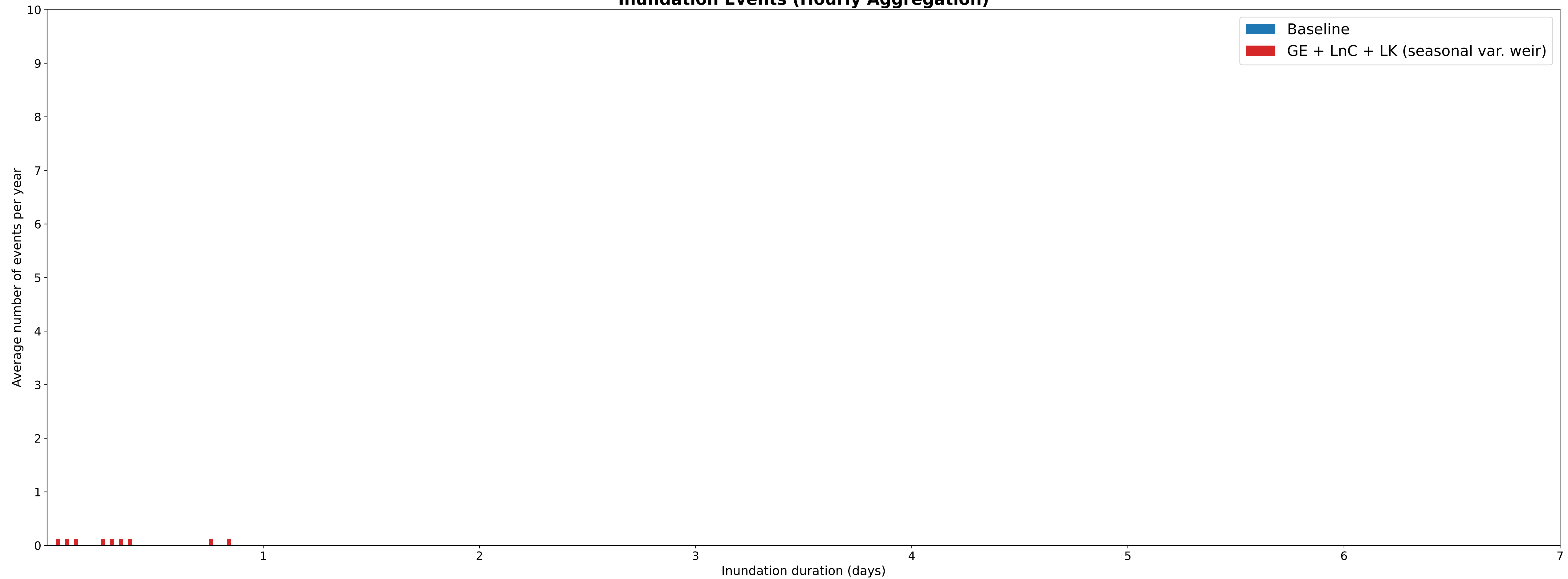
Figure 2.7

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

1:4,000 @ A3

0 250 500 Metres

Autumn - Level [16.90] m - Seasonal Variable Weir Inundation Events (Hourly Aggregation)



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

Autumn - Level [16.90] m - Seasonal Variable Weir
Inundation Events (9-year dataset)

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	-	-	-	-	-
GE + LnC + LK (seasonal var. weir)	1 hr	3 hr	7 hr	9 hr	20 hr

Event counts by duration category
(Average number per year)

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	1.0
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)	0.0	0.0

Inundation 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

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Predicted Water Area (Meters Above Datum)

 17.1m - 11.68ha

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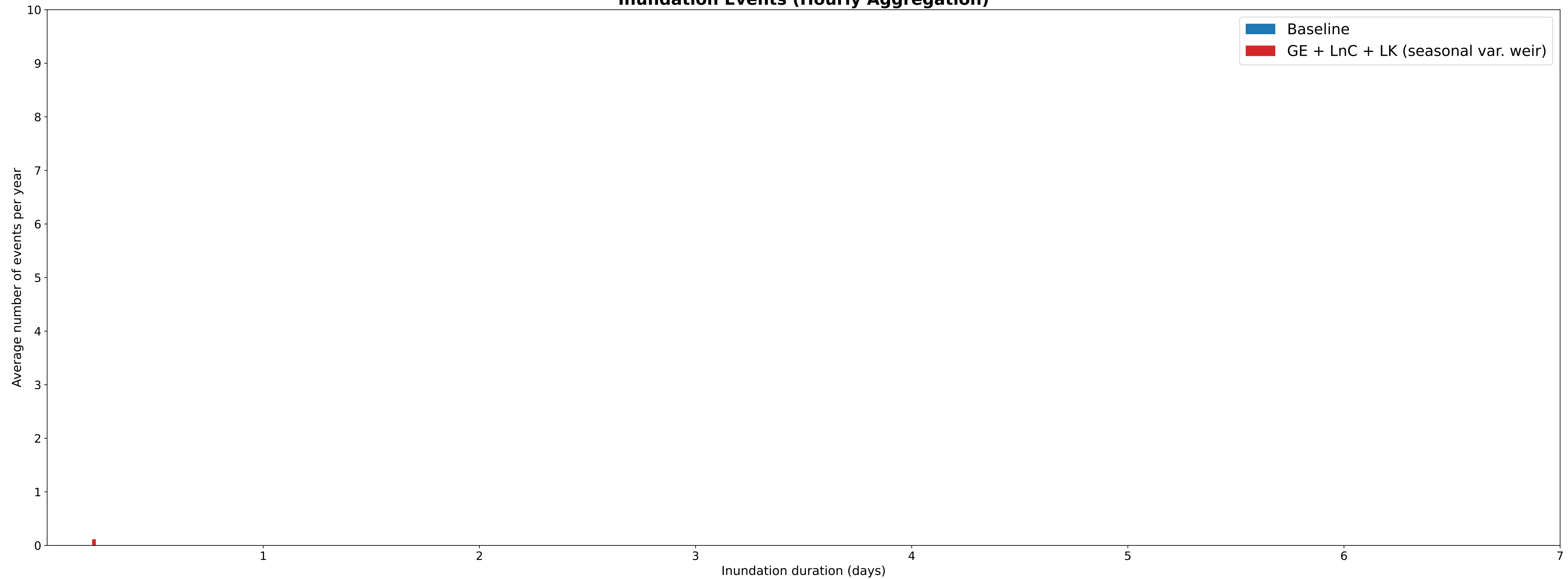
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Urquhart Bay Wood LiDAR Survey -
Predicted Water Areas at 0.2m Level
Bandings

Figure 2.8

Autumn - Level [17.10] m - Seasonal Variable Weir Inundation Events (Hourly Aggregation)



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

**Autumn - Level [17.10] m - Seasonal Variable Weir
Inundation Events (9-year dataset)**

Event duration summary statistics

	5% percentile	25% percentile	50% percentile (median)	75% percentile	95% percentile
Baseline	-	-	-	-	-
GE + LnC + LK (seasonal var. weir)	5 hr	5 hr	5 hr	5 hr	5 hr

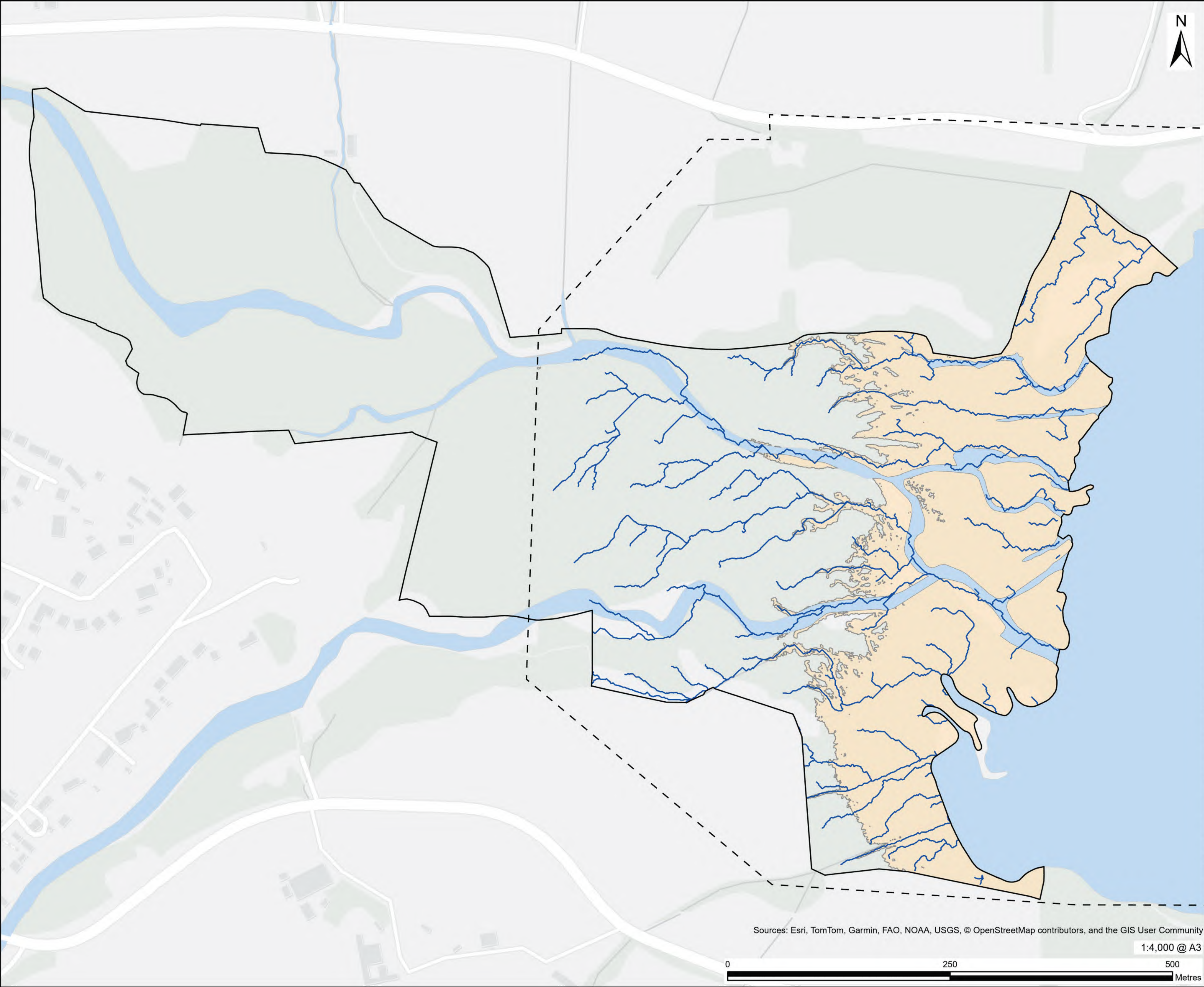
**Event counts by duration category
(Average number per year)**

	Baseline	GE + LnC + LK (seasonal var. weir)
Sums of ≤ 24 hr (up to 1 day)	0.0	0.1
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)	0.0	0.0

Inundation 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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AECOM

PROJECT

Glen Earrach Pumped
Storage Hydro

CLIENT

Glen Earrach Energy Ltd.

CONSULTANT

AECOM Limited
Aldgate Tower
2, Leman Street
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)
 - 17.3m - 13.20ha

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.

ISSUE PURPOSE

FINAL

PROJECT NUMBER

60719875

FIGURE TITLE

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

FIGURE NUMBER

Figure 2.9

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

1:4,000 @ A3

0 250 500 Metres

No inundation events occurred
Season: autumn
Level threshold: 17.3 m
Scheme: baseline vs GE + LNC + LK

Inundation 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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 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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FINAL

60719875

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

Figure 2.10

No inundation events occurred
Season: autumn
Level threshold: 17.5 m
Scheme: baseline vs GE + LNC + LK