



Shannon levels this morning 30/01/2023:

Gauge Location	Level m.O.D.	Highest Level since 1932	
		m.O.D.	Date
Lough Allen	48.87	50.85	Jan 65
Lough Ree	38.54	39.72	Jan 16
Athlone Downstream	37.89	39.08	Jan 16
Lough Derg - Portumna	33.58	34.76	Nov 09
Lough Derg - Pier Head, Killaloe	33.36	34.33	Nov 09

Note: All levels are relative to Poolbeg Datum.

Met Éireann 5 Day Rain Forecast:

Approximately 8mm of rain is forecast for the Shannon catchment to Lough Allen over the next 5 days.

Approximately 2mm of rain is forecast for the Shannon catchment from Lough Allen to Lough Ree over the next 5 days.

Approximately 3mm of rain is forecast for the Shannon catchment from Lough Ree to Lough Derg over the next 5 days.

Level at Athlone Downstream:

Gauge is downstream of Athlone Weir and is a measure of the water level at the north end of the callows south of Athlone.

Note: All sluices at Athlone Weir closed as of 17/10/2022

Discharge at Parteen Weir:

It is expected that there will be no additional discharge necessary at Parteen Weir over the next 5 days based on current weather forecast



Lough Allen

Date of Prediction: 30 January 2023

Catchment Rainfall

Historical: based on daily records for Lough Allen in OISHYDRO (ESB Database)

31 January 2023 to 04 February 2023: based on Met Éireann forecast for Lough Allen catchment

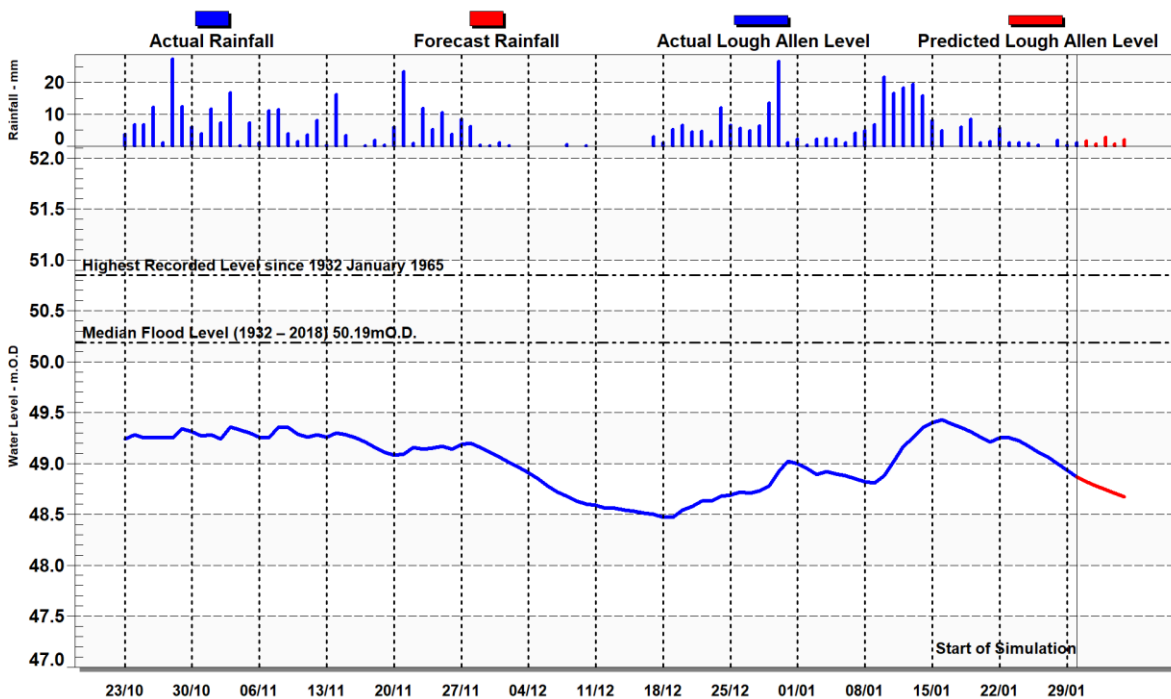
Historical Peak Levels

Flood Event	Peak Level (m.O.D.)
Winter 1994/1995 (March 1995)	50.50
Winter 1999/2000 (December 1999)	50.55
Winter 2006/2007 (January 2007)	49.72
Winter 2009/2010 (November 2009)	50.77
Winter 2015/2016 (December 2015)	50.60
Highest since 1932 (January 1965)	50.85

Predicted Highest Level (using the ESB Shannon Forecasting Model)

48.82 m.O.D. on 31 January 2023

Lough Allen Level from 23 October 2022 to 04 February 2023



Assumptions

Two gates at Lough Allen open 40cm throughout forecast period.

All levels refer to metres above Poolbeg Ordnance Datum



Lough Ree

Date of Prediction: 30 January 2023

Catchment Rainfall

Historical: based on daily records for Lough Allen and Athlone in OISHYDRO (ESB Database)

31 January 2023 to 04 February 2023: based on Met Éireann forecast for Lough Ree catchment

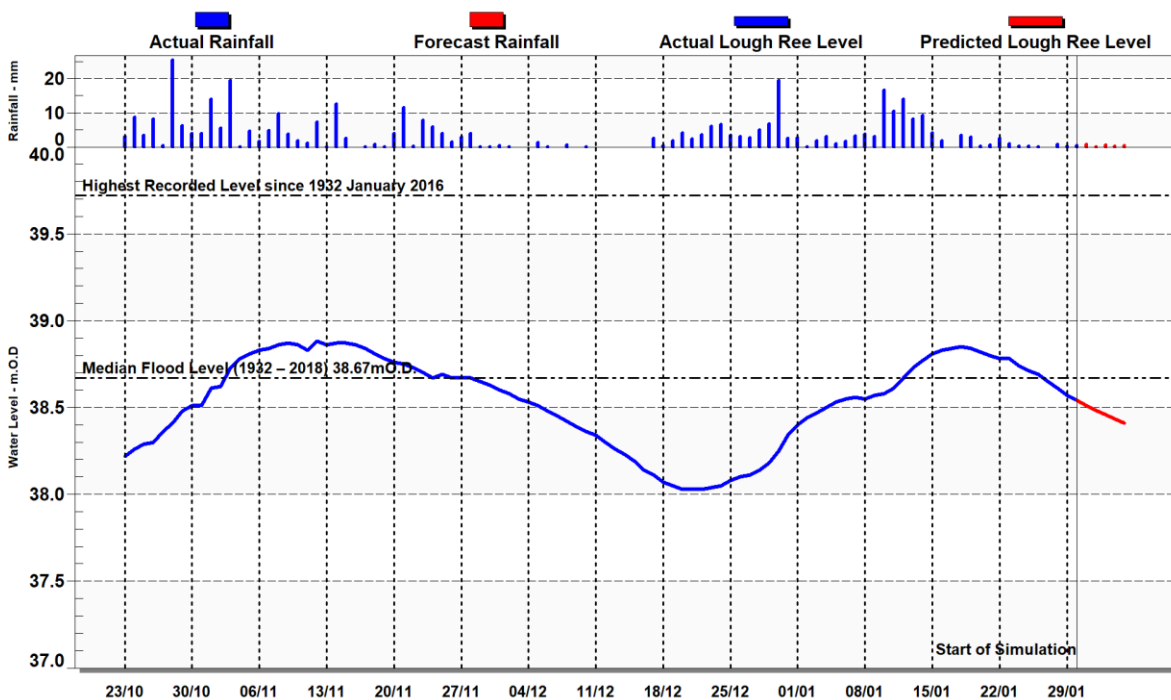
Historical Peak Levels

Flood Event	Peak Level (m.O.D.)
Winter 1994/1995 (March 1995)	38.97
Winter 1999/2000 (December 1999)	39.17
Winter 2006/2007 (January 2007)	39.19
Winter 2009/2010 (November 2009)	39.67
Winter 2015/2016 (January 2016)	39.72
Highest since 1932 (January 2016)	39.72

Predicted Highest Level (using the ESB Shannon Forecasting Model)

38.51 m.O.D. on 31 January 2023

Lough Ree Level from 23 October 2022 to 04 February 2023



Assumptions

Note: All sluices at Athlone Weir closed throughout forecast period.

All levels refer to metres above Poolbeg Ordnance Datum



Lough Derg

Date of Prediction: 30 January 2023

Catchment Rainfall

Historical: based on daily records for Athlone, Portumna, Victoria Lock, Killaloe and Parteen in OISHYDRO (ESB Database)

31 January 2023 to 04 February 2023: based on Met Éireann forecast for Lough Derg catchment

Note: Lough Derg level is taken to be average of level recorded at Portumna and Pier Head, Killaloe. The variation in level between Portumna and Pier Head is a function of flow magnitude and wind direction.

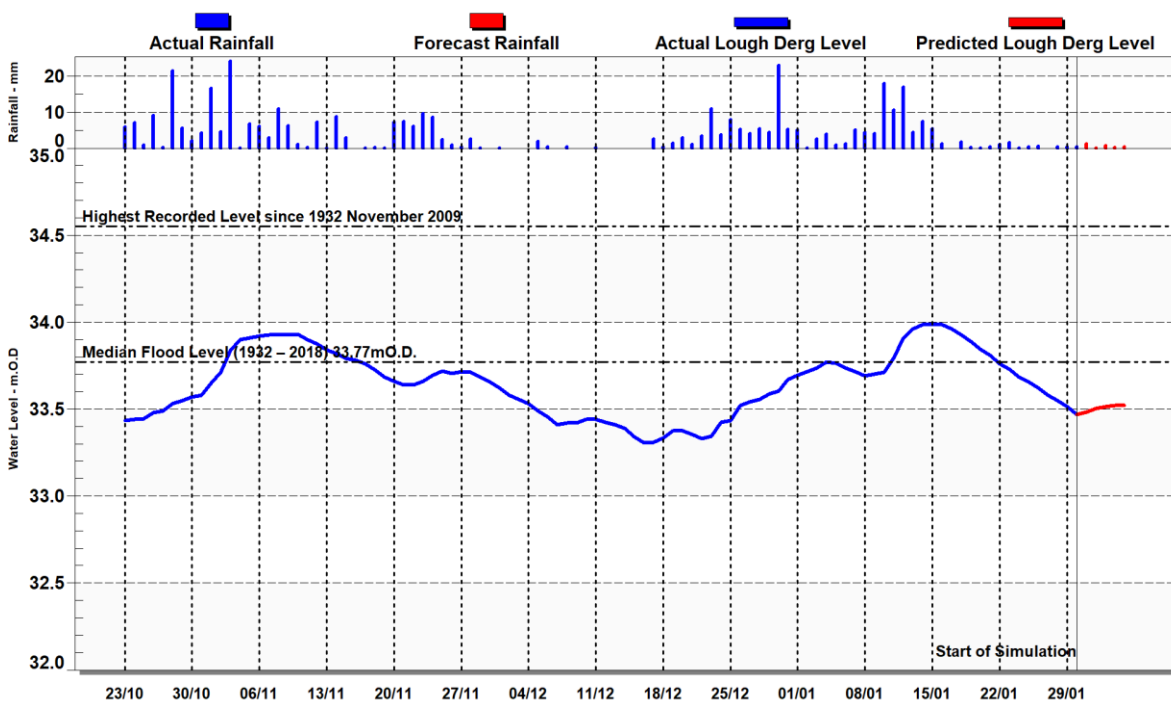
Historical Peak Levels

Flood Event	Peak Level (m.O.D.)	
	Portumna	Killaloe
Winter 1994/1995 (March 1995)	34.40	34.01
Winter 1999/2000 (December 1999)	34.30	33.90
Winter 2006/2007 (January 2007)	34.30	33.91
Winter 2009/2010 (November 2009)	34.76	34.33
Winter 2015/2016 (January 2016)	34.68	34.26
Highest since 1932 (November 2009)	34.76	34.33

Predicted Highest Level (using the ESB Shannon Forecasting Model)

33.52 m.O.D. on 04 February 2023

Lough Derg Level from 23 October 2022 to 04 February 2023





Energy for
generations

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Assumptions

Total combined Parteen Discharge ranging between 300m³/s and 270m³/s throughout forecast period.

Median Flood Level is the flood level that has an annual exceedance probability of 50% (i.e. return period 2 years).

All levels refer to metres above Poolbeg Ordnance Datum