

Estimating the temporal overlap between post-smolt migration of Atlantic salmon and salmon lice infestation pressure from fish farms

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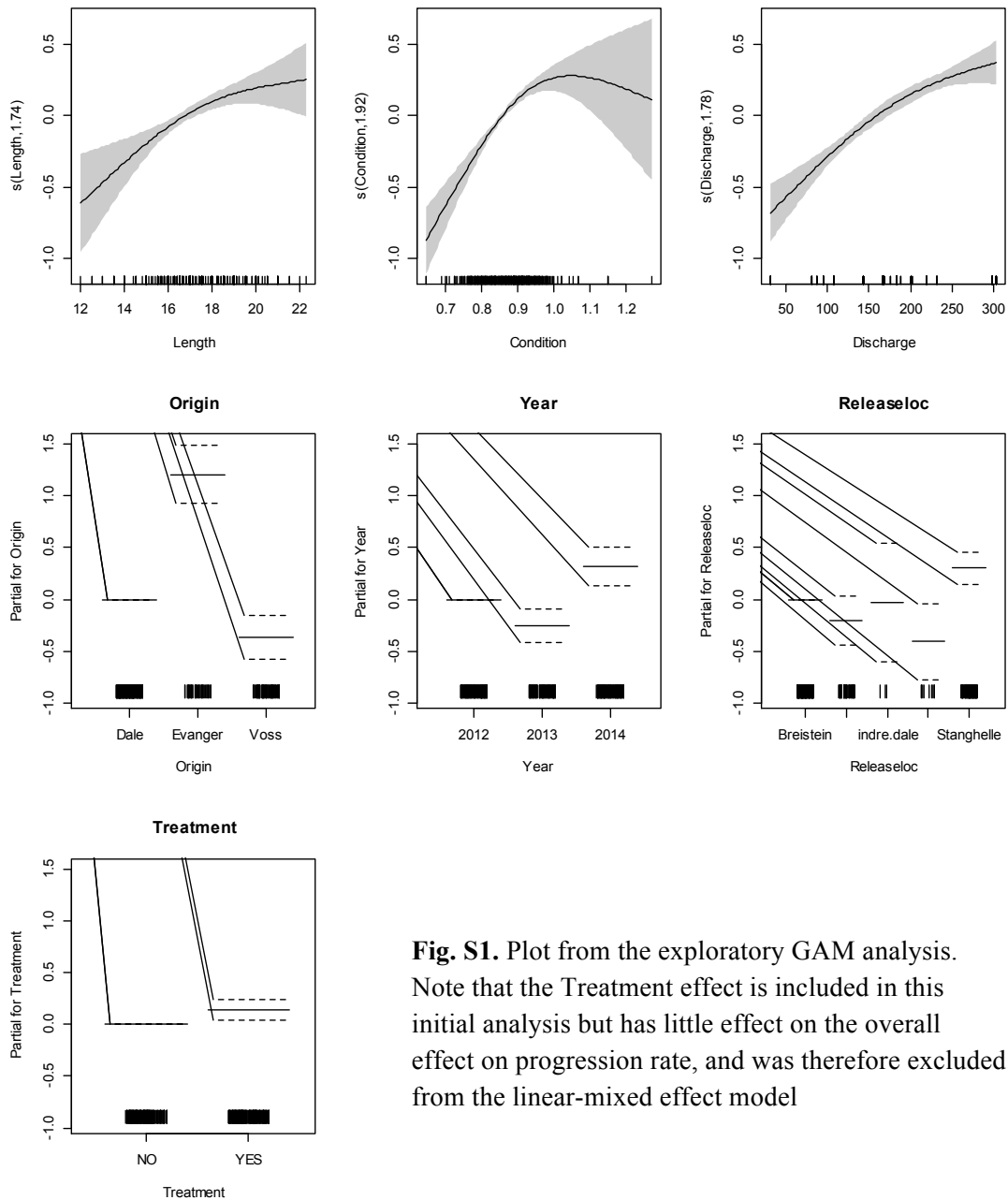


Fig. S1. Plot from the exploratory GAM analysis. Note that the Treatment effect is included in this initial analysis but has little effect on the overall effect on progression rate, and was therefore excluded from the linear-mixed effect model

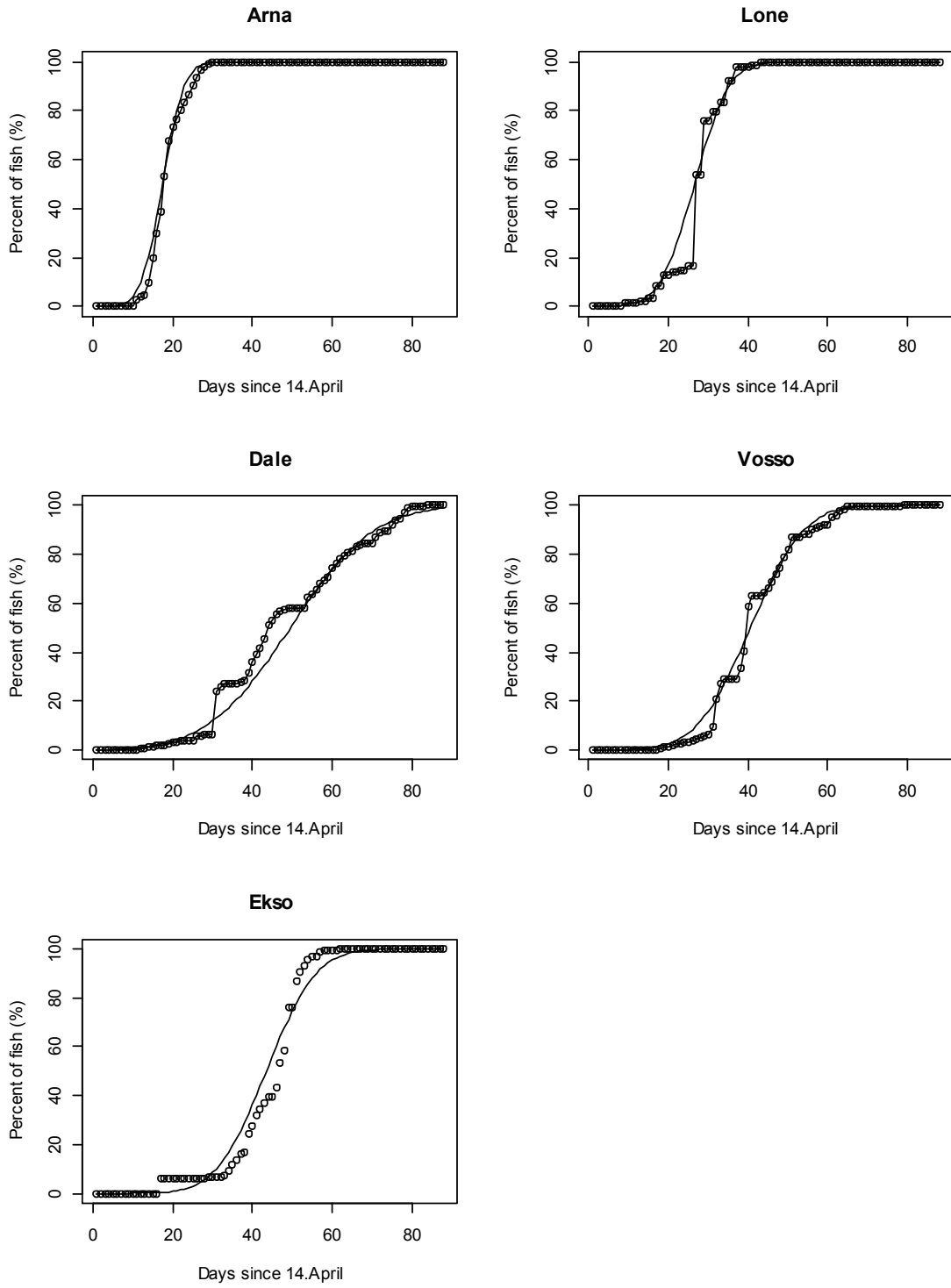


Fig. S2. Cumulative distribution plot of data on timing of wild smolt migration from 5 rivers (circles) and fitted normal distribution (line)

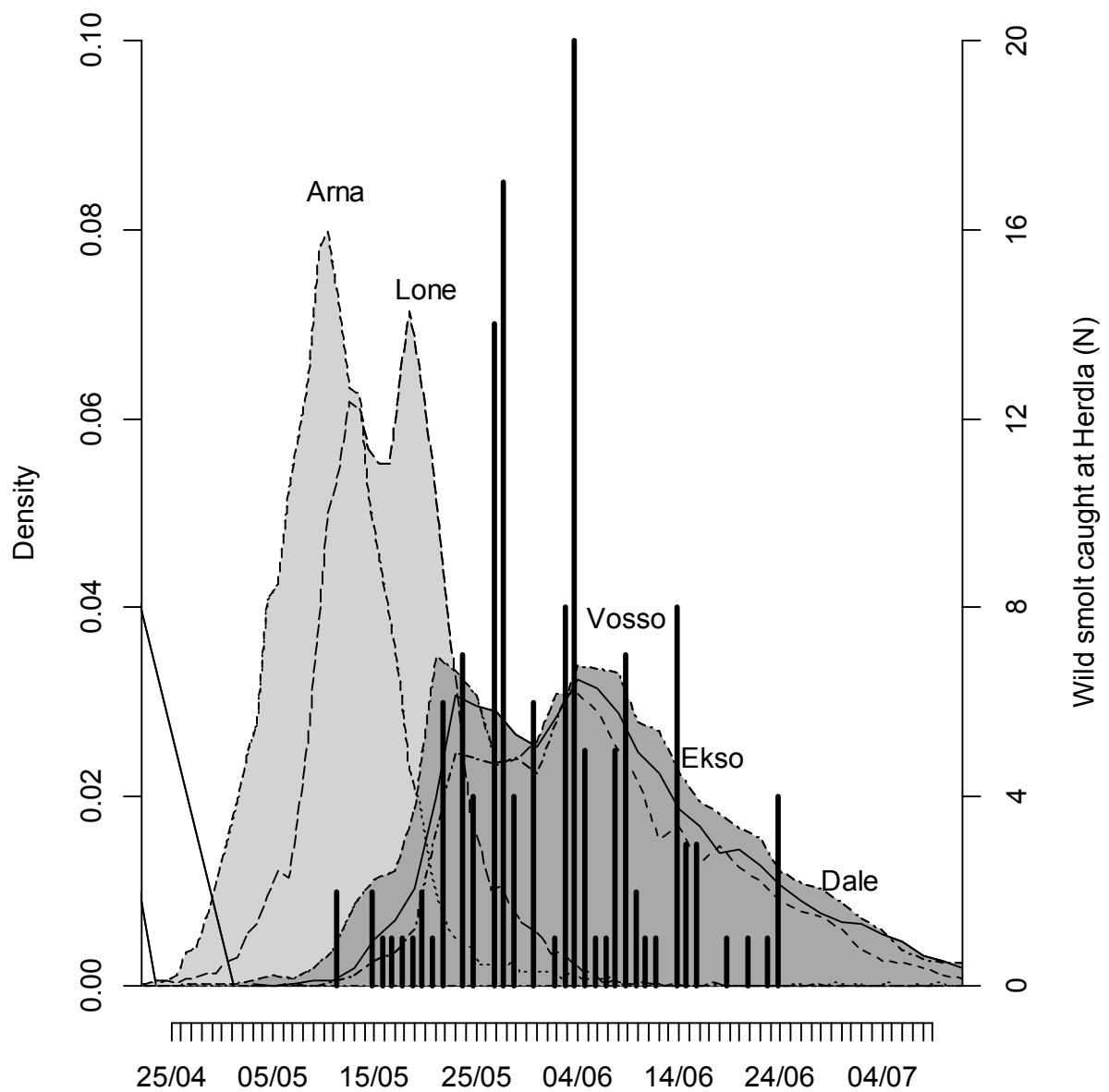


Fig. S3 Modelled density distributions of arrival time at trap net location (Herdla) using discharge data from 2013. The light grey shaded curves are the modelled arrival times for smolts from Arna and Lone, while the dark grey shaded polygons represent the arrival times for smolts from Vosso, Ekso and Dale. Black bars are numbers of wild smolts caught in the trap net from 2012 to 2014.

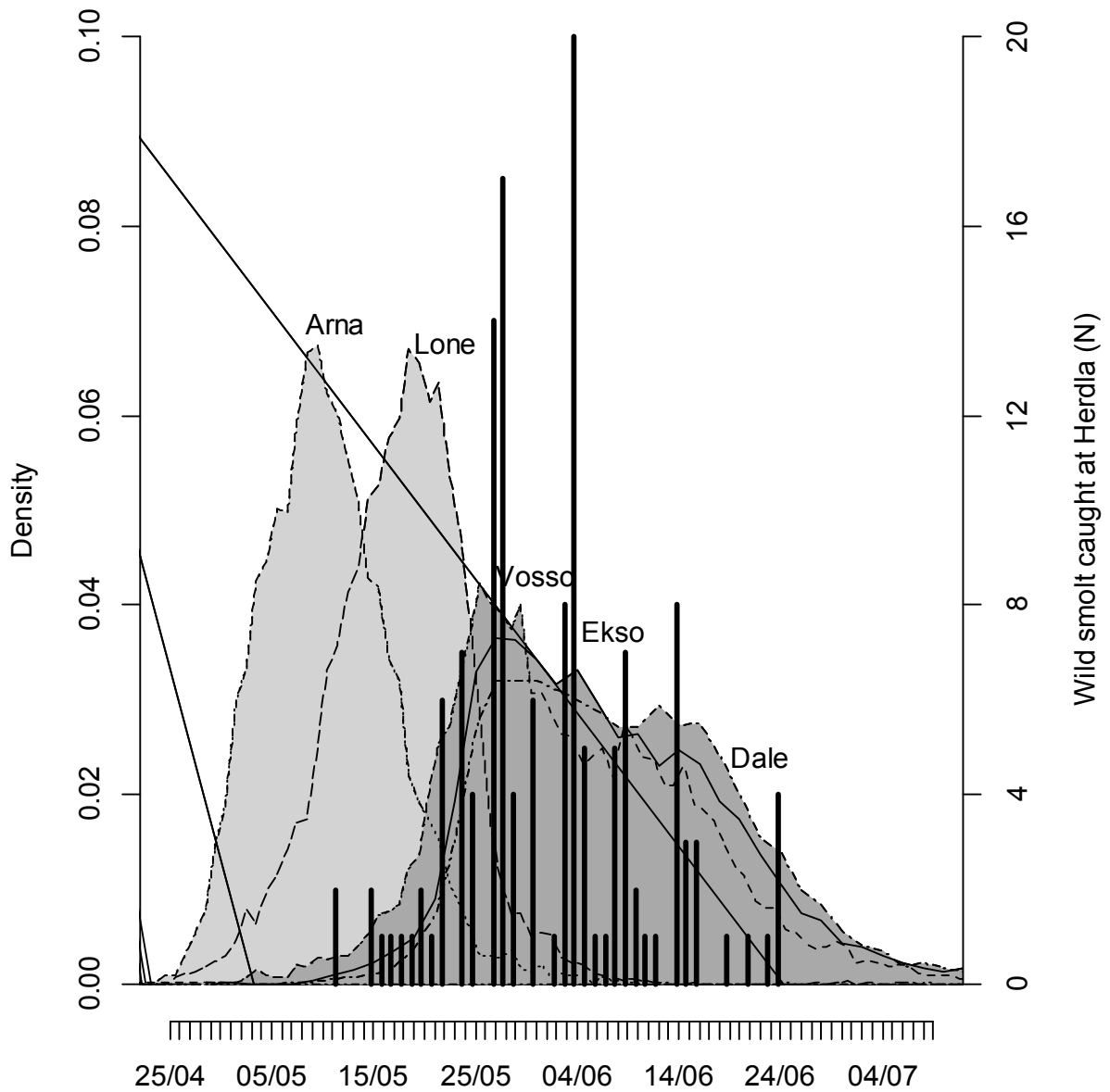


Fig. S4 Modelled density distributions of arrival time at trap net location (Herdla) using discharge data from 2014. The light grey shaded curves are the modelled arrival times for smolts from Arna and Lone, while the dark grey shaded polygons represent the arrival times for smolts from Vosso, Ekso and Dale. Black bars are numbers of wild smolts caught in the trap net from 2012 to 2014.

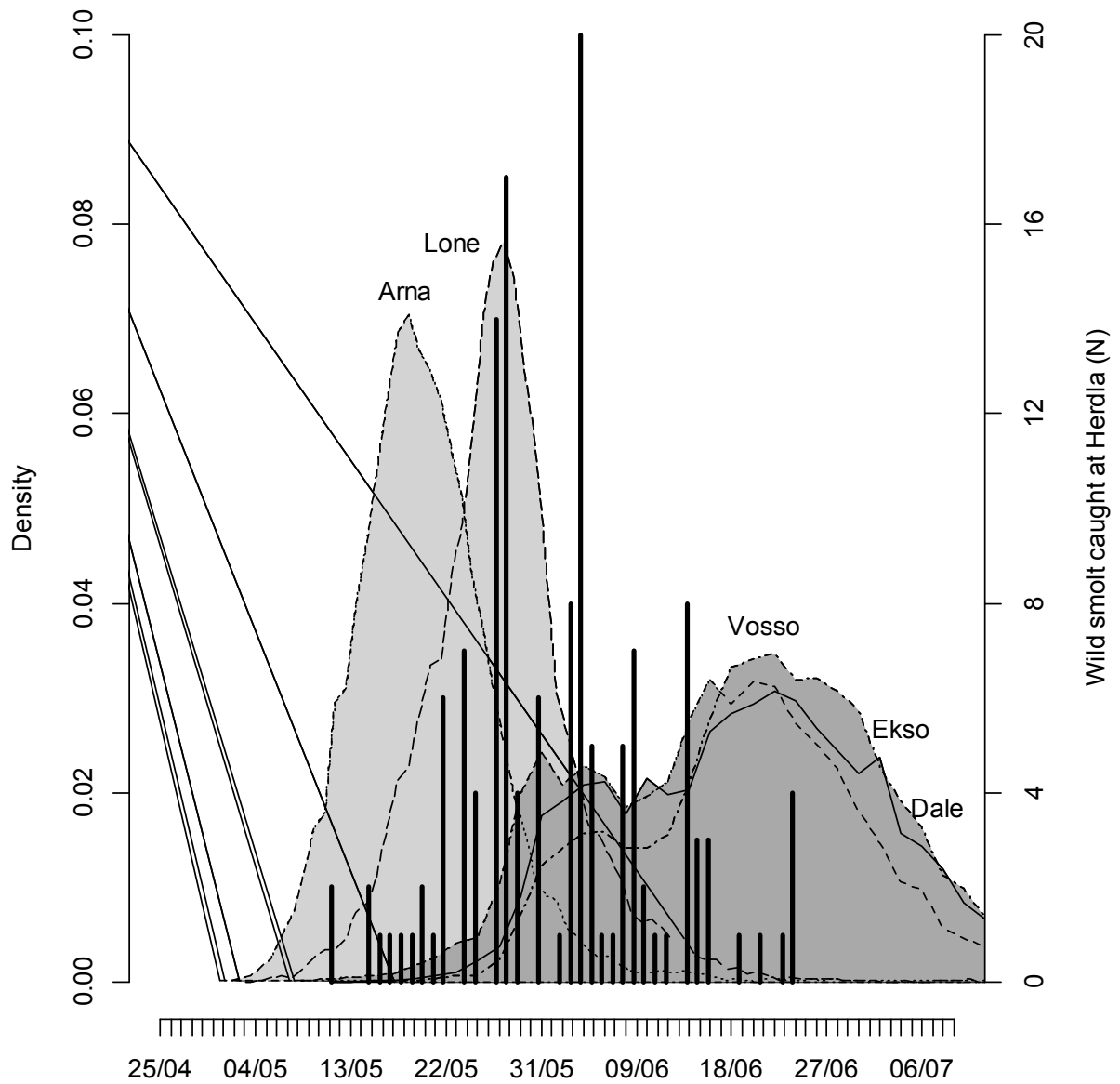


Fig. S5 Modelled density distributions of arrival time at trap net location (Herdla) in 2012 with a 10 days added time to smolt migration. The light grey shaded curves are the modelled arrival times for smolts from Arna and Lone, while the dark grey shaded polygons represent the arrival times for smolts from Vosso, Ekso and Dale. Black bars are numbers of wild smolts caught in the trap net from 2012 to 2014.

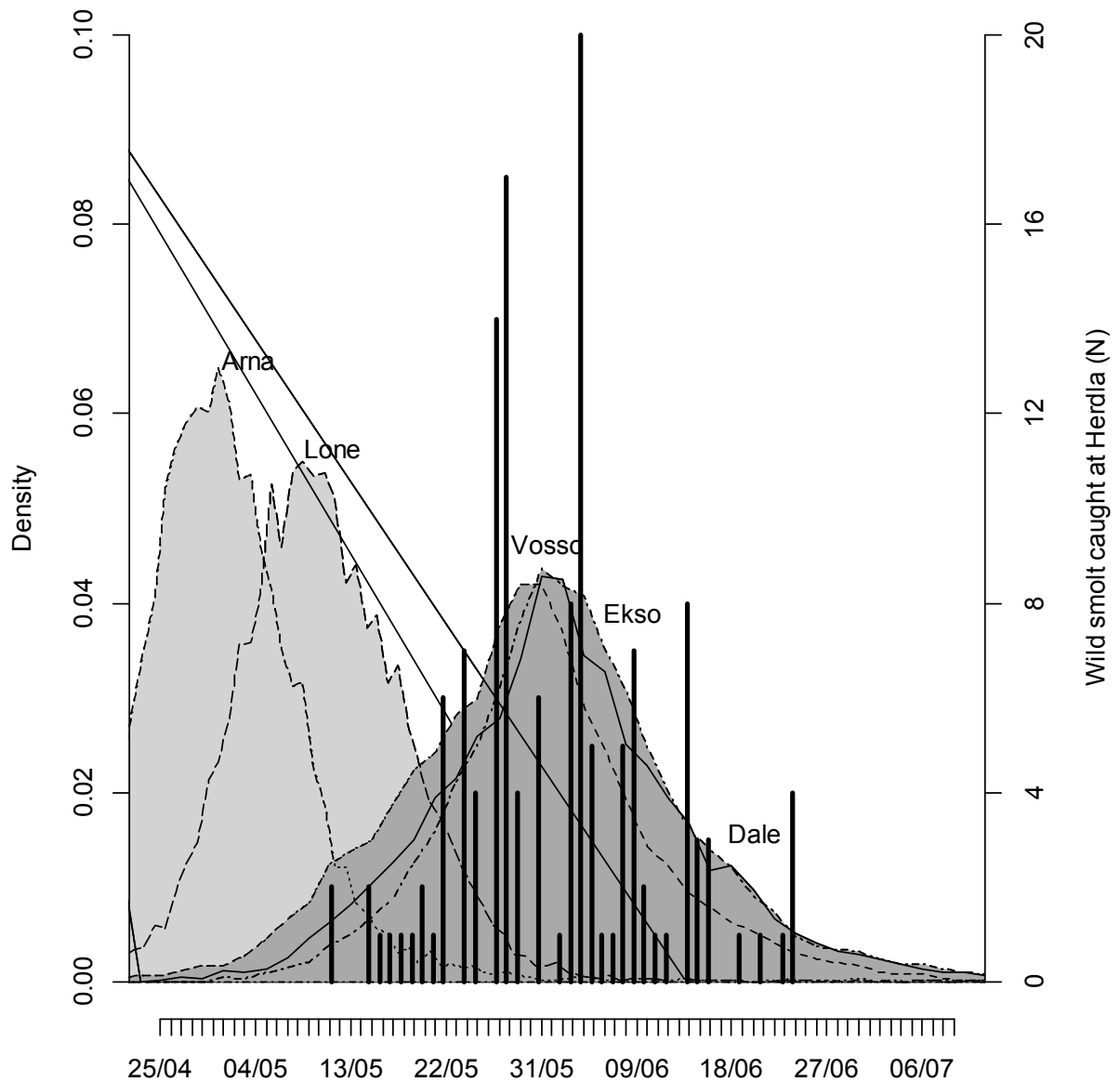


Fig. S6 Modelled density distributions of arrival time at trap net location (Herdla) in 2012 with a 10 days subtracted from smolt migration. The light grey shaded curves are the modelled arrival times for smolts from Arna and Lone, while the dark grey shaded polygons represent the arrival times for smolts from Vosso, Ekso and Dale. Black bars are numbers of wild smolts caught in the trap net from 2012 to 2014.

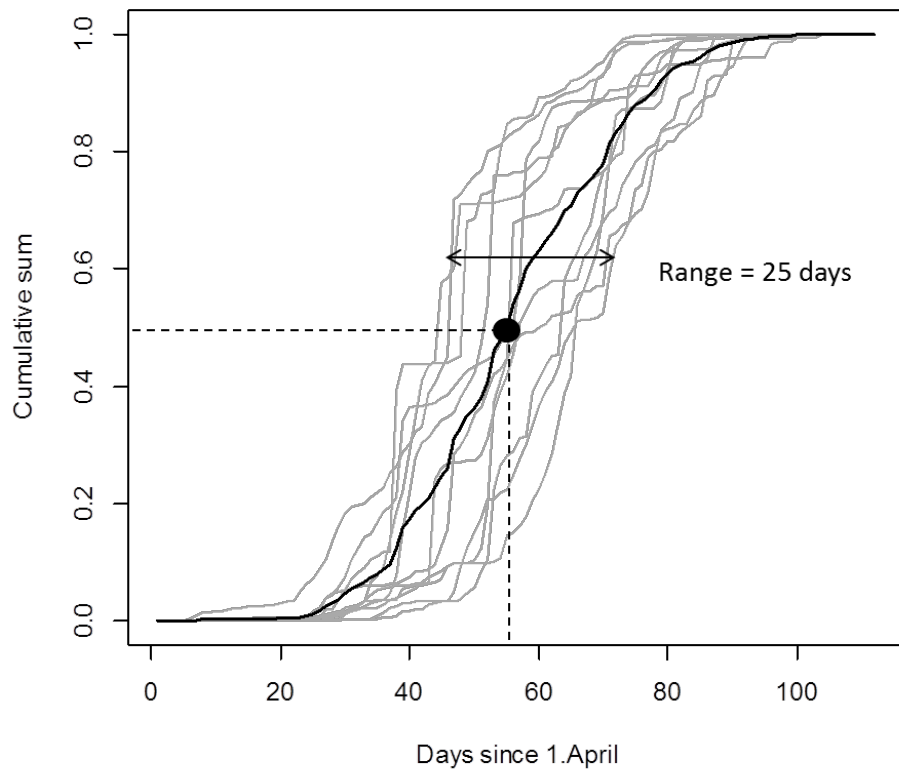


Fig. S7 Cumulative frequency plot of smolt run from the wolf trap in Dale from 2000-2012.