Table 5. Region-based training scores (maxDepth = 1 to 25).

											ı	Max Dep	th Hyper	paramete	er											
nFold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Mean (nFold)
1	0.460	0.689	0.818	0.860	0.890	0.902	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.907	0.874
2	0.436	0.736	0.780	0.820	0.831	0.834	0.836	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.837	0.814
3	0.368	0.689	0.738	0.773	0.806	0.808	0.811	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.812	0.784
4	0.341	0.445	0.536	0.585	0.614	0.623	0.636	0.640	0.641	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.642	0.613
5	0.456	0.691	0.818	0.863	0.888	0.897	0.900	0.901	0.901	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.902	0.870
6	0.412	0.712	0.812	0.843	0.863	0.871	0.873	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.874	0.845
Mean (Depth)	0.412	0.660	0.750	0.791	0.815	0.823	0.827	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.829	0.800

Table 6. Region-based validation scores (maxDepth = 1 to 25).

	Max Depth Hyperparameter																									
nFold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Mean (nFold)
1	-9.318	-3.275	-3.519	-3.552	-5.631	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.965	-5.784
2	0.315	0.015	-0.149	-0.222	-0.211	-0.227	-0.237	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.235	-0.198
3	0.663	0.315	0.264	0.269	0.246	0.231	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.234
4	-0.117	0.096	0.046	0.040	0.035	0.040	0.035	0.038	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.031
5	-2.802	-0.492	-0.363	-0.315	-0.356	-0.315	-0.269	-0.234	-0.260	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.357	-0.445
6	-6.008	-20.992	-17.374	-18.360	-17.375	-14.739	-14.642	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.643	-14.922
Mean (Depth)	-2.878	-4.055	-3.516	-3.690	-3.882	-3.496	-3.479	-3.473	-3.478	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.494	-3.514

Table 7. Region-based root mean squared error (RMSE) (maxDepth = 1 to 25).

											ı	Vlax Dept	h Hyperp	paramete	r											
nFold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Mean (nFold)
1	39.422	25.260	25.962	26.044	31.506	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	32.339	31.799
2	28.089	33.633	36.486	37.587	37.376	37.599	37.758	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.725	37.103
3	18.992	27.057	27.920	27.969	28.379	28.598	29.166	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	29.124	28.493
4	52.036	46.847	48.092	48.407	48.548	48.396	48.495	48.414	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.537	48.574
5	62.102	38.691	37.216	36.263	36.883	36.263	35.707	35.218	35.707	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.063	37.882
6	19.744	34.802	31.864	32.872	32.080	29.420	29.349	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.353	29.540
Mean (Depth)	36.731	34.382	34.590	34.857	35.795	35.436	35,469	35.362	35.464	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.690	35.565

Table 8. Time-based training/validation scores and RMSE (maxDepth = 1 to 25).

		Max Depth Hyperparameter																								
Metric	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Mean
Train	0.602	0.861	0.882	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.872
Test	-3.501	-3.303	-3.539	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.360	-3.370
RMSE	42.077	41.138	42.253	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.409	41.459