

**Table S6.** Performance comparison of the HHA-Net and baseline models (CNN and LSTM) on the benchmark dataset GEMS-GER (test dataset).

	MAE		RMSE		NSE		R <sup>2</sup>	
	Mean	Median	Mean	Median	Mean	Median	Mean	Median
CNN	0.290	0.134	0.329	0.167	-2.299	0.763	0.834	0.908
LSTM	0.235	0.110	0.268	0.138	-1.806	0.826	0.877	0.941
HHA-Net	<b>0.150</b>	<b>0.096</b>	<b>0.186</b>	<b>0.122</b>	<b>0.348</b>	<b>0.863</b>	<b>0.901</b>	<b>0.954</b>

