(Paper - I found a free PDF with the full text, which I'll be uploading to this folder shortly)

This paper compared a variety of Wavelet Transform + ARIMA predictive models on the task of predicting future commodity prices for a variety of metals. Its forecasting framework first used a wavelet-based MRA (multiresolution analysis) component, which was based off of a variety of discrete wavelet transforms (DWT) and maximal-overlap discrete wavelet transforms (MODWT), each of which used a different wavelet or number of layers. This produced a "smooth series" (the smoothed data) and a set of "detail series".

Future data was predicted by training separate ARIMA models on the smooth series and each of the detail series, then adding up the predicted values for each of the series, thus obtaining a forecast of the original time series. I am currently working on implementing a similar algorithm for stock market prices. The paper found that, generally, MODWT is superior for this application as compared to DWT, and was able to obtain high accuracies with sufficient layers and a MODWT-Arima model.