

## Solar activity in cycle 24 2. predictions

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Predicting the future solar activity has been an important challenge in solar physics, and there are growing interests recently. Prediction methods can be categorized into two groups. One utilizes empirical laws from derived from past records, and the other utilized physic-based dynamo model. Dynamo models that consider meridional flows derived from observationally from helioseismology are called flux transport dynamo. Some authors claim that the flux transport with proper parameters can reproduce the sunspot number of past cycles quite well. However, their predictions for cycle 24 do not agree. We will discuss the current status of the predictions for cycle 24.