Reviewer's report

Title: Modeling gradually changing seasonal variation in count data using state space models: a cohort study of hospitalization rates of stroke in atrial fibrillation patients in Denmark from 1977 to 2011

Version: 1 Date: 15 August 2012

Reviewer: David Stoffer

Reviewer's report:

Minor Essential Revisions

In the model statement on page 4, the term in the model called "offset_t" is not defined.

Also, how the model deals with overdispersion should be explained in more detail (rather than simply mentioning it later on page 9).

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.