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## RecDev



Recruitment deviations

*file:* [*recdevs1\_points.png*](http://docs.google.com/recdevs1_points.png)

**

Recruitment deviations with 95% intervals

*file:* [*recdevs2\_withbars.png*](http://docs.google.com/recdevs2_withbars.png)

**

Recruitment deviations variance check.

See later figure of transformed variance values for comparison with bias adjustment settings in the model.

*file:* [*recdevs3\_varcheck.png*](http://docs.google.com/recdevs3_varcheck.png)

**

Points are transformed variances. Red line shows current settings forfor bias adjustment specified in control file.Blue line shows least squares estimate of alternative bias adjustmentrelationship for recruitment deviations (which may or may not be animprovement. For more information, see

Methot, R.D. and Taylor, I.G., 2011. Adjusting for bias due to variability of estimated recruitments in fishery assessment models. *Can. J. Fish. Aquat. Sci.*, 68:1744-1760.

Estimated alternative inputs to SS control file associated with blue line in figure:

1974.2 #\_last\_early\_yr\_nobias\_adj\_in\_MPD   
2001.4 #\_first\_yr\_fullbias\_adj\_in\_MPD   
2010.0 #\_last\_yr\_fullbias\_adj\_in\_MPD   
2014.6 #\_first\_recent\_yr\_nobias\_adj\_in\_MPD   
0.7808 #\_max\_bias\_adj\_in\_MPD (1.0 to mimic pre-2009 models)

*file:* [*recruit\_fit\_bias\_adjust.png*](http://docs.google.com/recruit_fit_bias_adjust.png)