Table 1. Systematic model progression from the 2012 assessment data to the agreed revised datasets for 2013. Note that the data file names corresponding to each model follow the convention e.g., “Mod0.1.dat” and “Mod0.1.ctl”.

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| --- | --- |
| Model | Description |
| 0.0 | 2012 configuration and data (Model 7c from the 2012 assessment) |
| 0.1 | As in Model 0.0 but with the updated catch time series (through 2012 only) |
| 0.2 | As in Model 0.1 but with the revised mean weights-at-age provided by Chile |
| 0.3 | As in Model 0.2 but extended to 2013 (estimated end-year catches) and with the updated Chilean indices and age compositions |
| 0.4 | As in Model 0.3 but with the all other updated indices and age compositions |
| 1.1 | As in 0.4 Chilean SC CPUE q change in 2012 and SC Acoustic q step 2002+ |
| 1.2 | As in 1.1 Peruvian acoustic q change from 1994, and again in 1997 |
| 1.3 | As in 1.2 but with time-varying selectivity for the SC Chilean fleet |
| 1.4 | As 1.3 add time-varying for other fleets |
| 1.5 | As 1.4 but SigmaR = 1.0 |
| 1.6 | As 1.2 but down weight offshore trawl composition data by a factor of 10 |
| 1.7 | As 1.2 but down weight all indices (and their age or length comps) except Chinese CPUE, SC Chilean CPUE, and SC Acoustics, and downweight offshore age compositions |
| 1.8 | As 1.2 w/ M estimated (but constant w/ age and time) |
| 1.9 | As 1.2 with all age composition data downweighted by 10 |
| 1.10 | As 1.2 but with age-error turned on |
| Retro | From 1.3 for 0-8 peels |

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|  | catch  like | age  like  fsh | length  like  fsh | sel  like  fsh | ind  like | age  like  ind | sel  like  ind | rec  like | post  priors | total |
| Model 0.0 | 2 | 614 | 467 | 75 | 522 | 133 | 25 | 25 | 0 | 1,863 |
| Model 0.1 | 1 | 614 | 467 | 75 | 518 | 132 | 25 | 26 | 0 | 1,859 |
| Model 0.2 | 2 | 616 | 466 | 74 | 534 | 132 | 26 | 25 | 0 | 1,877 |
| Model 0.3 | 1 | 634 | 471 | 76 | 571 | 229 | 27 | 21 | 0 | 2,032 |
| Model 0.4 | 3 | 645 | 534 | 74 | 702 | 236 | 28 | 30 | 0 | 2,251 |
| Model 1.1 | 2 | 631 | 535 | 74 | 687 | 233 | 24 | 31 | 0 | 2,217 |
| Model 1.2 | 4 | 612 | 527 | 71 | 405 | 224 | 24 | 16 | 0 | 1,884 |
| Model 1.3 | 2 | 517 | 524 | 101 | 372 | 218 | 23 | 16 | 0 | 1,774 |
| Model 1.4 | 1 | 381 | 422 | 271 | 294 | 184 | 22 | 25 | 0 | 1,602 |
| Model 1.5 | 1 | 362 | 421 | 267 | 293 | 183 | 22 | 51 | 0 | 1,602 |
| Model 1.6 | 3 | 431 | 522 | 65 | 384 | 227 | 25 | 1 | 0 | 1,660 |
| Model 1.7 | 3 | 411 | 507 | 66 | 134 | 113 | 20 | 1 | 0 | 1,257 |
| Model 1.8 | 2 | 574 | 531 | 67 | 400 | 227 | 25 | -1 | 16 | 1,842 |
| Model 1.9 | 1 | 119 | 62 | 34 | 230 | 43 | 4 | -4 | 0 | 489 |
| Model 1.10 | 3 | 596 | 516 | 100 | 388 | 246 | 23 | 4 | 0 | 1,879 |