Comparison of initial 2011 OMP results for two alternate poaching scenarios

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Results are compared here of the existing OMP which is applied to

- Case 1a: operating models which assume a historic 500 MT maximum poaching level+ "old" future poaching scenarios shown in Table 1 + "old" super-area split of future poaching.
- Case 2a: operating models which assume a historic 250 MT maximum poaching level+ "new" future poaching scenarios shown in Table 1 + "old" super-area split of future poaching.
- Case 2b: operating models which assume a historic 250 MT maximum poaching level+ "new" future poaching scenarios shown in Table 1 + "new" super-area split of future poaching.

For all cases the **past/historic** poaching is split:

A12: 1%
A34: 2.5%
A56: 2.5%
A7: 14%
A8: 80%

For Case 1 and 2a future poaching splits are as for the past. For Case 2b however, alternate/new splits of future poaching levels are assumed as agreed by the SWG at its last meeting, these being:

A12: 0.15%
A34: 24.97%
A56: 30.13%
A7: 10.0%
A8: 34.75%

Table 1: The total future poaching levels for each Case assumed are as follows:

		Case 1a "old"	**Case 2a+b "new"**
PRC (weight=0.50)	2008	500	250
	2009	500	250
	2010+	500	250
PRL (weight=0.25)	2008	500	250
	2009	750	375
	2010+	1000	500
PRH (weight=0.25)	2008	500	250
	2009	1000	500
	2010+	1500	750

Table 2:

	OM underlying assessment	historic poaching level	Future poaching level	Future poaching split	OMP sector splits
Case 0	2007	500 (old)	500+variants (old)	Old	Old
Case 1	2011	500 (old)	500+variants (old)	Old	New
Case 2a	**2011**	**250 (new)**	**250+variants (new)**	**Old**	**New**
Case 2b	2011	250 (new)	250+variants (new)	New	New

Results

For both cases 700 simulations were run. Table 2 reports comparative results. Figure 1 shows the total *B*75m trajectories relative to the 2006 values, and Figure 2 shows the median total *B*75m trajectories relative to the 1996 values.

Table 2: Comparison between three initial 2011-related OMPs with the same tuning parameter values as OMP 2007 re-cast. Values in parenthesis are the 5th and 95th percentile values. [The OMP is applied for the 2011+ period only, and actual catches made prior to 2011 are taken into account].

		Initial OMP 2011 Case 1	**Initial OMP 2011 Case 2a**	**Initial OMP 2011 Case 2b**
10-yr (2006-2015) Ave commercial TAC	A1-2	29 [26; 29]	29 [27; 29]	29 [27; 29]
	A3-4	126 [102; 162]	121 [101; 150]	120 [100; 148]
	A5-6	38 [34; 39]	39 [36; 39]	39 [36; 39]
	A7	755 [609; 962]	808 [646; 974]	809 [647; 974]
	A8	1387 [1202; 1573]	1421 [1255; 1601]	1424 [1258; 1605]
	T	2301 [2012; 2429]	2398 [2114; 2429]	2404 [2114; 2429]
10-yr (2006-2015) Ave near shore TAC	A1-2	27 [24; 28]	28 [25; 28]	28 [25; 28]
	A3-4	81 [72; 83]	83 [76; 83]	83 [76; 83]
	A5-6	36 [32; 37]	37 [34; 37]	37 [34; 37]
	A7	0 [0; 0]	0 [0; 0]	0 [0; 0]
	A8	359 [321; 369]	368 [337; 369]	368 [337; 369]
	T	502 [449; 517]	515 [472; 517]	515 [472; 517]
10-yr (2006-2015) Ave offshore TAC	A1-2	0 [0; 0]	0 [0; 0]	0 [0; 0]
	A3-4	45 [25; 80]	39 [22; 67]	38 [21; 65]
	A5-6	2 [2; 2]	2 [2; 2]	2 [2; 2]
	A7	755 [609; 962]	808 [646; 974]	809 [647; 974]
	A8	1034 [863; 1205]	1059 [905; 1232]	1061 [909; 1237]
	T	1797 [1554; 1912]	1884 [1642; 1912]	1890 [1642; 1912]
10-yr (2006-2015) Ave subsistence TAC	A1-2	7 [6;7]	7 [6;7]	7 [6;7]
	A3-4	45 [38; 47]	45 [39; 47]	45 [39; 47]
	A5-6	54 [45; 55]	54 [47; 55]	54 [47; 55]
	A7	0 [0; 0]	0 [0; 0]	0 [0; 0]
	A8	112 [94; 116]	112 [98; 116]	112 [98; 116]
	T	219 [184; 226]	219 [192; 226]	219 [192; 226]
10 yr (2006-2015) Ave Total Recreational Take	T	173 [173; 181]	173 [173; 181]	173 [173; 181]
B_m**(16/06)**	A1-2	1.220 [0.795; 2.226]	1.078 [0.662; 2.131]	1.053 [0.632; 2.109]
	A3-4	1.168 [0.677; 2.789]	1.185 [0.750; 2.416]	1.085 [0.615; 2.291]
	A5-6	1.387 [1.126; 1.893]	1.492 [1.205; 2.003]	1.267 [0.921; 1.791]
	A7	0.696 [0.017; 5.509]	0.670 [0.044;4.049]	0.698 [0.048;4.116]
	A8	0.530 [0.120; 0.917]	0.728 [0.441; 1.043]	0.812 [0.556; 1.113]
	T	0.892 [0.473; 1.737]	0.961 [0.626; 1.593]	0.965 [0.630; 1.601]
B_m**(06/1910)**	A1-2	0.010	0.009	0.009
	A3-4	0.027	0.029	0.029
	A5-6	0.016	0.015	0.015
	A7	0.027	0.028	0.028
	A8	0.069	0.083	0.083
	T	0.032	0.036	0.036
B_m**(16/1910)**	A1-2	0.012; [0.008;0.021]	0.009; [0.006;0.019]	0.009; [0.006;0.018]
	A3-4	0.032 [0.018; 0.075]	0.034 [0.022; 0.070]	0.032 [0.018; 0.067]
	A5-6	0.022 [0.018; 0.029]	0.023 [0.019; 0.031]	0.019 [0.014; 0.028]
	A7	0.019 [0.000; 0.148]	0.019 [0.001; 0.114]	0.020 [0.001; 0.116]
	A8	0.036 [0.008; 0.063]	0.061 [0.037; 0.087]	0.068 [0.046; 0.093]
	T	0.028 [0.015; 0.055]	0.034 [0.022; 0.057]	0.034 [0.022; 0.057]

Figure 1: Comparative plots of B75m relative to 2006 values. The median and 90% CI are shown for each, except for the bottom right plot where only the median values are shown.

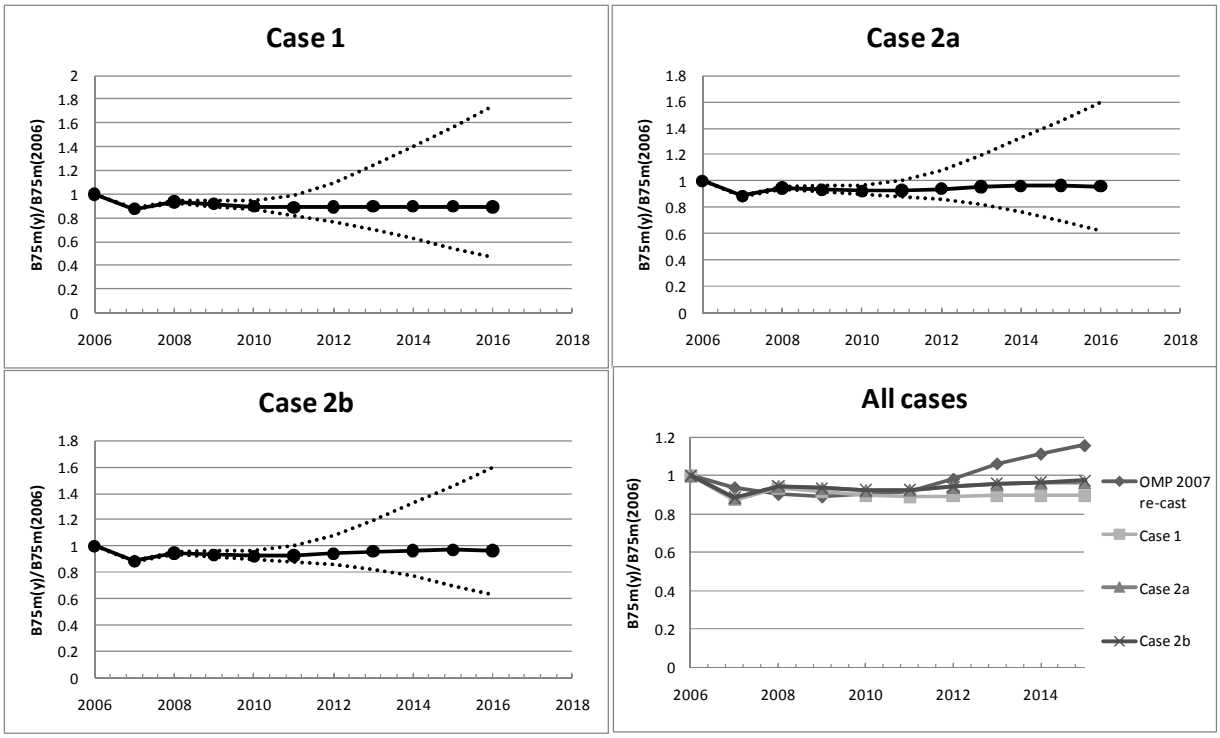

Figure 2: Comparative plots of median B75m values relative to 1996 values.