**Western Zone:**

**1 breakpoint**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Western class** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits | 2014 | 2009-2014 | 0.04 | -0.85 | 0.94 | 0.913 |
| **2014-2018** | **2.00** | **0.33** | **3.69** | **0.026** |

**Linear trend**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Western class** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Recruits | 2009-2018 | 0.08 | -0.227 | 0.400 | 0.542 |

|  |  |
| --- | --- |
|  |  |

1 break point

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Zone class** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Central Pre-recruits | 2009 | **2003-2009** | **-1.71** | **-2.08** | **-1.33** | **<0.001** |
| 2009-2018 | -0.23 | -0.49 | 0.03 | 0.074 |
| Central Recruits | 2009 | **2003-2009** | **-1.30** | **-1.68** | **-0.91** | **<0.001** |
| **2009-2018** | **-0.32** | **-0.50** | **-0.14** | **0.002** |

|  |  |
| --- | --- |
|  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Eastern class** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Eastern Pre-recruits | **2003-2018** | **-0.24** | **-0.32** | **-0.15** | **<0.001** |
| Eastern Pre-recruits without MP | **2003-2018** | **-0.27** | **-0.37** | **-0.18** | **<0.001** |

1 break point

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Zone class** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Eastern Recruits | 2008 | **2003-2008** | **-1.43** | **-2.06** | **-0.80** | **<0.001** |
| **2008-2018** | **-0.27** | **-0.46** | **-0.08** | **0.008** |
| Eastern Recruits without MP | 2008 | **2003-2008** | **-1.74** | **-2.25** | **-1.22** | **<0.001** |
| **2008-2018** | **-0.26** | **-0.41** | **-0.10** | **0.004** |

|  |  |
| --- | --- |
|  |  |
|  |  |

**Western SMU with Linear trends**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Zone class** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits Julia Percy | 2013 | 2003-2013 | -2.10 | -5.34 | 1.15 | 0.164 |
| **2013-2018** | **2.58** | **0.85** | **4.31** | **0.011** |
| Pre-recruits Portland | 2015 | 2003-2015 | 0.12 | -0.89 | 1.13 | 0.782 |
| **2015-2018** | **2.07** | **0.18** | **3.96** | **0.036** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Pre-recruits SMU** | **Segments** | **Slope** | **LCL** | **UCL** | **P-value** |
| Port Fairy | **2009-2018** | **1.35** | **0.31** | **2.39** | **0.017** |
| Warrnambool | **2009-2018** | **0.86** | **0.24** | **1.47** | **0.012** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Recruits SMU** | **Segments** | **Slope** | **LCL** | **UCL** | **P-value** |
| Julia Percy Island | 2009-2018 | -0.30 | -1.50 | 0.90 | 0.577 |
| Port Fairy | 2009-2018 | 0.05 | -0.60 | 0.70 | 0.856 |
| Portland | 2009-2018 | 0.21 | -0.12 | 0.54 | 0.179 |
| Warrnambool | 2009-2018 | 0.07 | -0.21 | 0.34 | 0.584 |

**Central SMU**

**Pre-recruits/Recruits by SMU**

**With three break points**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SMU** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits Shipwreck Coast | 2007  2009  2016 | 2004-2007 | -0.29 | -2.06 | 1.48 | 0.711 |
| **2007-2009** | **-5.38** | **-7.15** | **-3.61** | **<0.001** |
| **2009-2016** | **0.94** | **0.46** | **1.41** | **0.002** |
| 2016-2018 | -0.90 | -4.44 | 2.64 | 0.564 |
| **With two break points** |  |  |  |  |  |  |
| Pre-recruits Flinders | 2005  2009 | 2003-2004 | 1.21 | -1.17 | 3.60 | 0.284 |
| **2004-2006** | **-3.42** | **-5.80** | **-1.03** | **0.009** |
| **2006-2018** | **-0.64** | **-1.00** | **-0.26** | **0.003** |
| Recruits Flinders | 2004  2006 | **2003-2004** | **-5.40** | **-7.47** | **-3.33** | **<0.001** |
| **2004-2006** | **2.76** | **0.68** | **4.83** | **0.014** |
| **2006-2018** | **-0.76** | **-0.88** | **-0.64** | **<0.001** |
| Recruits Shipwreck Coast | 2009  2016 | **2003-2009** | **-5.51** | **-6.59** | **-4.42** | **<0.001** |
| **2009-2016** | **1.21** | **0.56** | **1.86** | **0.014** |
| 2016-2018 | -1.80 | -4.23 | 0.63 | <0.001 |

**Central SMU with one breakpoint**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SMU** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits Cape Liptrap | 2006 | **2004-2006** | **-2.87** | **-5.40** | **-0.35** | **0.029** |
| **2006-2018** | **-0.36** | **-0.66** | **-0.06** | **0.022** |
| Pre-recruits Cape Otway | 2012 | **2003-2012** | **-0.97** | **-1.22** | **-0.71** | **<0.001** |
| 2012-2018 | 0.27 | -0.29 | 0.82 | 0.318 |
| Pre-recruits Prom Westside | 2017 | **2003-2017** | **-0.31** | **-0.62** | **-0.00** | **0.049** |
| **2017-2018** | **7.88** | **1.22** | **14.54** | **0.024** |
| Recruits Cape Liptrap | 2006 | **2004-2006** | **-7.05** | **-9.78** | **-4.32** | **<0.001** |
| **2006-2018** | **-0.46** | **-0.60** | **-0.32** | **<0.001** |
| Recruits Phillip Island | 2006 | **2003-2006** | **-3.34** | **-4.56** | **-2.11** | **<0.001** |
| **2006-2018** | **-0.23** | **-0.46** | **-0.00** | **0.046** |
| Recruits Prom westside | 2009 | **2003-2009** | **-1.89** | **-2.98** | **-0.79** | **0.002** |
| **2009-2018** | **0.36** | **-0.14** | **0.86** | **0.145** |

**Central SMU with linear trends**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SMU** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits Back.Beaches | **2003-2018** | **-0.59** | **-0.81** | **-0.37** | **<0.001** |
| Pre-recruits Phillip.Island | **2003-2018** | **-0.44** | **-0.70** | **-0.18** | **0.003** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Reef Codes** | **Segemnt** | **Slope** | **LCL** | **UCL** | **P-value** |
| Recruits Back.Beaches | 2003-2018 | 0.02 | -0.48 | 0.52 | 0.929 |
| Recruits Cape.Otway | **2003-2018** | **-0.47** | **-0.69** | **-0.26** | **<0.001** |

**Eastern SMU**

**Pre-recruits/Recruits by SMU**

**With one breakpoint**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **SMU** | **Break points** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits Mallacoota small | 2011 | **2003-2011** | **0.73** | **0.06** | **1.40** | **0.034** |
| 2011-2018 | -0.89 | -1.87 | 0.09 | 0.071 |
| Recruits Airport | 2007 | **2003-2007** | **-2.77** | **-3.56** | **-1.97** | **<0.001** |
| 2007-2018 | -0.09 | -0.33 | 0.15 | 0.418 |
| Recruits Mallacoota large | 2006 | 2003-2006 | 0.78 | -1.88 | 3.44 | 0.534 |
| **2006-2018** | **-0.68** | **-0.96** | **-0.40** | **<0.001** |
| Recruits Mallacoota small | 2008 | **2003-2008** | **-2.03** | **-2.98** | **-1.09** | **<0.001** |
| **2008-2018** | **-0.69** | **-0.97** | **-0.40** | **<0.001** |
| Recruits Mallacoota west | 2008 | **2003-2008** | **-1.54** | **-2.48** | **-0.61** | **0.004** |
| 2008-2018 | -0.00 | -0.28 | 0.28 | 0.987 |
| Recruits Marlo | 2006 | **2003-2006** | **-3.10** | **-4.56** | **-1.65** | **<0.001** |
| **2006-2018** | **-0.40** | **-0.66** | **-0.14** | **0.006** |

**Eastern SMUs with linear trend (Pre-recruits)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **SMU** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Pre-recruits  Airport | **2003-2018** | **-0.75** | **-0.96** | **-0.54** | **<0.001** |
| Pre-recruits  Mallacoota.Central | **2003-2018** | **-0.47** | **-0.60** | **-0.35** | **<0.001** |
| Pre-recruits  Mallacoota.East | **2003-2018** | **-0.21** | **-0.36** | **-0.06** | **0.008** |
| Pre-recruits  Mallacoota.Large | **2003-2018** | **-0.18** | **-0.25** | **-0.11** | **<0.001** |
| Pre-recruits  Mallacoota.West | 2003-2018 | -0.10 | -0.23 | 0.02 | 0.105 |
| Pre-recruits  Marlo | 2003-2018 | -0.09 | -0.33 | 0.16 | 0.470 |

**Eastern SMUs with linear trend (Recruits)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Reef Codes** | **Segment** | **Slope** | **LCL** | **UCL** | **P-value** |
| Recruits Mallacoota.Central | **2003-2018** | **-0.67** | **-0.96** | **-0.37** | **<0.001** |
| Recruits Mallacoota.East | **2003-2018** | **-0.47** | **-0.73** | **-0.20** | **0.002** |