**Stock: Megrim *L. whiffiagonis* in Divisions VIIIc and IXa**

**Assessment Quality Control Diagram 1**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Average F(2-4 ,u) | | | | | | | | | | | | | | | |
| Date of assessment | Year | | | | | | | | | | | | | | |
| 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | 0.48 | 0.39 | 0.45 | 0.45 | 0.52 | 0.47 |  |  |  |  |  |  |  |  |  |
| 1995 | 0.49 | 0.43 | 0.44 | 0.44 | 0.39 | 0.30 | 0.61 |  |  |  |  |  |  |  |  |
| 1996 | 0.50 | 0.43 | 0.45 | 0.46 | 0.41 | 0.35 | 0.67 | 0.54 |  |  |  |  |  |  |  |
| 1997 | 0.50 | 0.43 | 0.45 | 0.46 | 0.40 | 0.32 | 0.52 | 0.31 | 0.37 |  |  |  |  |  |  |
| 1998 | 0.42 | 0.34 | 0.38 | 0.41 | 0.34 | 0.29 | 0.42 | 0.21 | 0.24 | 0.31 |  |  |  |  |  |
| 1999 | 0.45 | 0.40 | 0.42 | 0.43 | 0.37 | 0.28 | 0.38 | 0.17 | 0.16 | 0.21 | 0.31 |  |  |  |  |
| 2000 | 0.48 | 0.42 | 0.43 | 0.44 | 0.38 | 0.29 | 0.40 | 0.17 | 0.16 | 0.20 | 0.32 | 0.25 |  |  |  |
| 2001 | 0.49 | 0.44 | 0.44 | 0.45 | 0.40 | 0.30 | 0.42 | 0.18 | 0.17 | 0.22 | 0.37 | 0.27 | 0.20 |  |  |
| 2002 | 0.49 | 0.43 | 0.44 | 0.45 | 0.40 | 0.30 | 0.42 | 0.18 | 0.18 | 0.22 | 0.40 | 0.30 | 0.21 | 0.13 |  |
| 2003 | 0.48 | 0.42 | 0.44 | 0.45 | 0.39 | 0.30 | 0.42 | 0.18 | 0.18 | 0.23 | 0.40 | 0.29 | 0.22 | 0.13 | 0.10 |

**Remarks:**

**Stock: Megrim *L. whiffiagonis* in Divisions VIIIc and IXa**

**Assessment Quality Control Diagram 2**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Recruitment (age 1 ) Unit: ‘000s | | | | | | | | | | | | | | | |
| Date of assessment | Year class | | | | | | | | | | | | | | |
| 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | 9.0 | 10.7 | 2.9 | 7.3 | 3.4 | 6.6 |  |  |  |  |  |  |  |  |  |
| 1995 | 6.6 | 12.4 | 4.0 | 11.0 | 2.3 | 0.1 | - |  |  |  |  |  |  |  |  |
| 1996 | 9.5 | 11.9 | 4.1 | 9.0 | 2.4 | 0.2 | 5.2 | 3.1 |  |  |  |  |  |  |  |
| 1997 | 9.4 | 11.9 | 4.6 | 9.7 | 2.7 | 0.4 | 7.3 | 6.8 | 4.4 |  |  |  |  |  |  |
| 1998 | 10.3 | 12.1 | 4.9 | 10.9 | 3.5 | 0.6 | 8.9 | 7.5 | 5.9 | 5.1 |  |  |  |  |  |
| 1999 | 9.8 | 12.1 | 5.0 | 10.9 | 4.7 | 1.1 | 9.6 | 8.8 | 6.5 | 4.9 | 6.1 |  |  |  |  |
| 2000 | 9.6 | 12.0 | 4.9 | 10.7 | 4.6 | 1.5 | 9.1 | 8.6 | 7.0 | 5.2 | 4.6 | 6.2 |  |  |  |
| 2001 | 9.4 | 12.0 | 4.8 | 10.4 | 4.5 | 1.6 | 8.4 | 7.9 | 6.9 | 5.0 | 4.4 | 7.0 | 5.8 |  |  |
| 2002 | 9.4 | 12.0 | 4.8 | 10.4 | 4.4 | 1.6 | 8.2 | 7.5 | 6.8 | 4.8 | 4.0 | 6.2 | 5.0 | 5.7 |  |
| 2003 | 9.5 | 12.0 | 4.8 | 10.4 | 4.3 | 1.5 | 8.2 | 7.6 | 6.3 | 4.7 | 3.4 | 6.0 | 4.8 | 5.2 | 5.5 |

GM assumed. GM (90-95) assumed. GM (90-year of assessment-2)

**Remarks:** 1995 assessment was not accepted

**Stock: Megrim *L. whiffiagonis* in Divisions VIIIc and IXa**

**Assessment Quality Control Diagram 3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Spawning stock biomass ('000 t) | | | | | | | | | | | | | | | | | |
| Date of assessment | Year | | | | | | | | | | | | | | | | |
| 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 |
| 1989 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1990 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1991 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1992 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1993 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1994 | 2.27 | 1.55 | 1.23 | 0.97 | 0.96 | 1.01 | 1.03 |  |  |  |  |  |  |  |  |  |  |
| 1995 | 2.33 | 1.56 | 1.44 | 1.36 | 1.04 | - | - | - |  |  |  |  |  |  |  |  |  |
| 1996 | 2.22 | 1.50 | 1.35 | 1.18 | 0.87 | 0.50 | 0.51 | 0.47 | 0.45 |  |  |  |  |  |  |  |  |
| 1997 | 2.29 | 1.51 | 1.40 | 1.28 | 0.98 | 0.68 | 0.92 | 0.96 | 0.99 | 0.96 |  |  |  |  |  |  |  |
| 1998 | 2.89 | 1.85 | 1.77 | 1.56 | 1.23 | 0.90 | 1.22 | 1.33 | 1.38 | 1.39 | 1.36 |  |  |  |  |  |  |
| 1999 | 2.70 | 1.63 | 1.58 | 1.49 | 1.26 | 1.06 | 1.44 | 1.59 | 1.54 | 1.52 | 1.51 | 1.52 |  |  |  |  |  |
| 2000 | 2.47 | 1.56 | 1.50 | 1.42 | 1.21 | 1.01 | 1.40 | 1.55 | 1.54 | 1.45 | 1.45 | 1.44 | 1.44 |  |  |  |  |
| 2001 | 2.34 | 2.42 | 1.51 | 1.43 | 1.36 | 1.15 | 0.96 | 1.30 | 1.42 | 1.42 | 1.35 | 1.55 | 1.63 | 1.67 |  |  |  |
| 2002 | 2.34 | 2.42 | 1.51 | 1.43 | 1.36 | 1.15 | 0.95 | 1.28 | 1.38 | 1.37 | 1.29 | 1.31 | 1.29 | 1.47 | 1.52 | 1.56 |  |
| 2003 | 2.35 | 2.40 | 1.54 | 1.48 | 1.38 | 1.15 | 0.95 | 1.27 | 1.36 | 1.33 | 1.22 | 1.31 | 1.26 | 1.47 | 1.56 | 1.69 | 1.77 |

Forecast.

SSB at 1 January **Remarks:** 1995 assessment was not accepted