

## Análisis preliminar

## Revisión de los datos

## Generar escenarios de sensibilidad

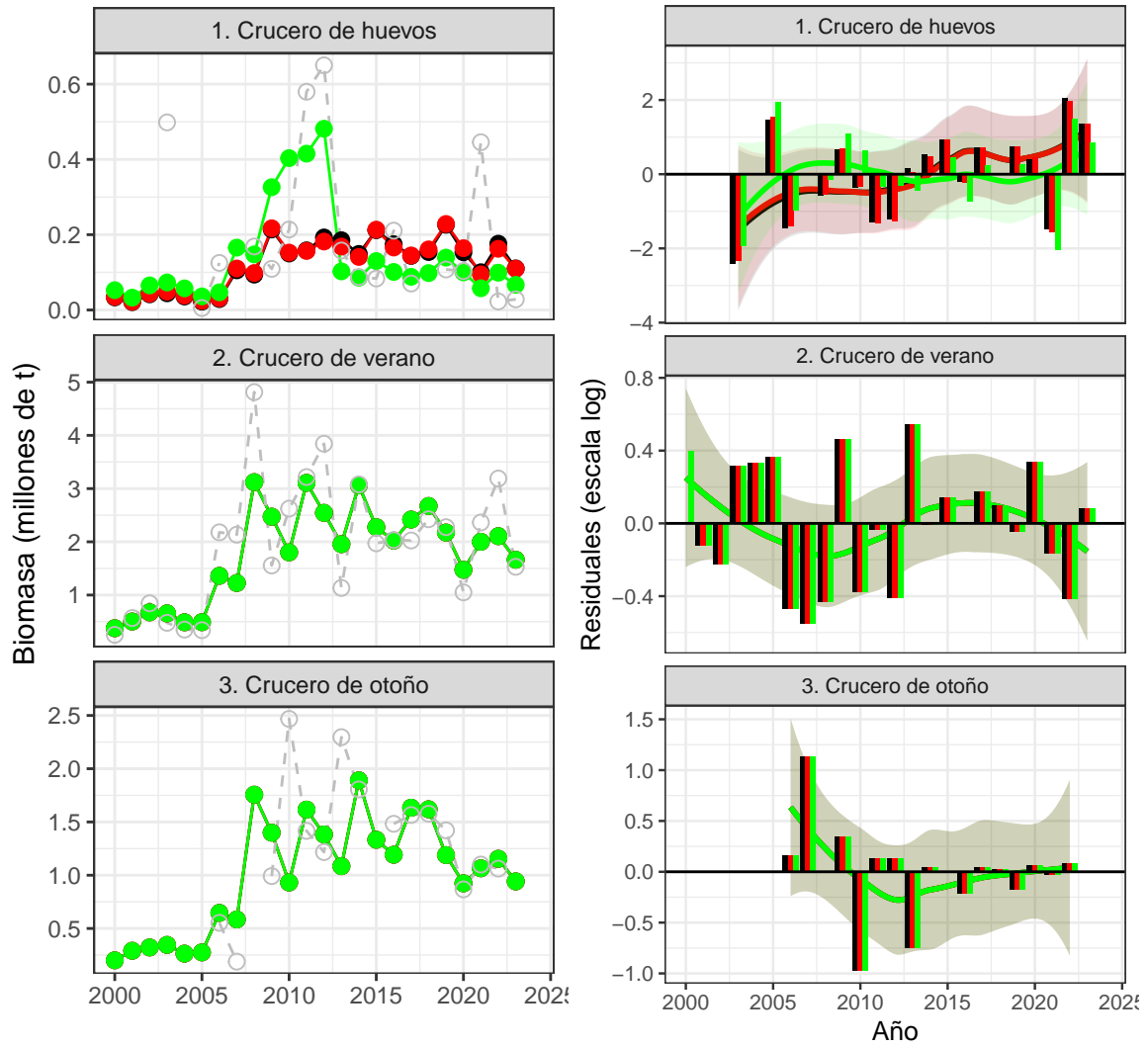
[illegible]

## Ejecute escenarios

Lee salidas

## S1: CV mph = 100

scenarios —●— caso base —●— dt\_mph variable —●— dt\_mph variable y 3 bloques\_qmph —○— Observa



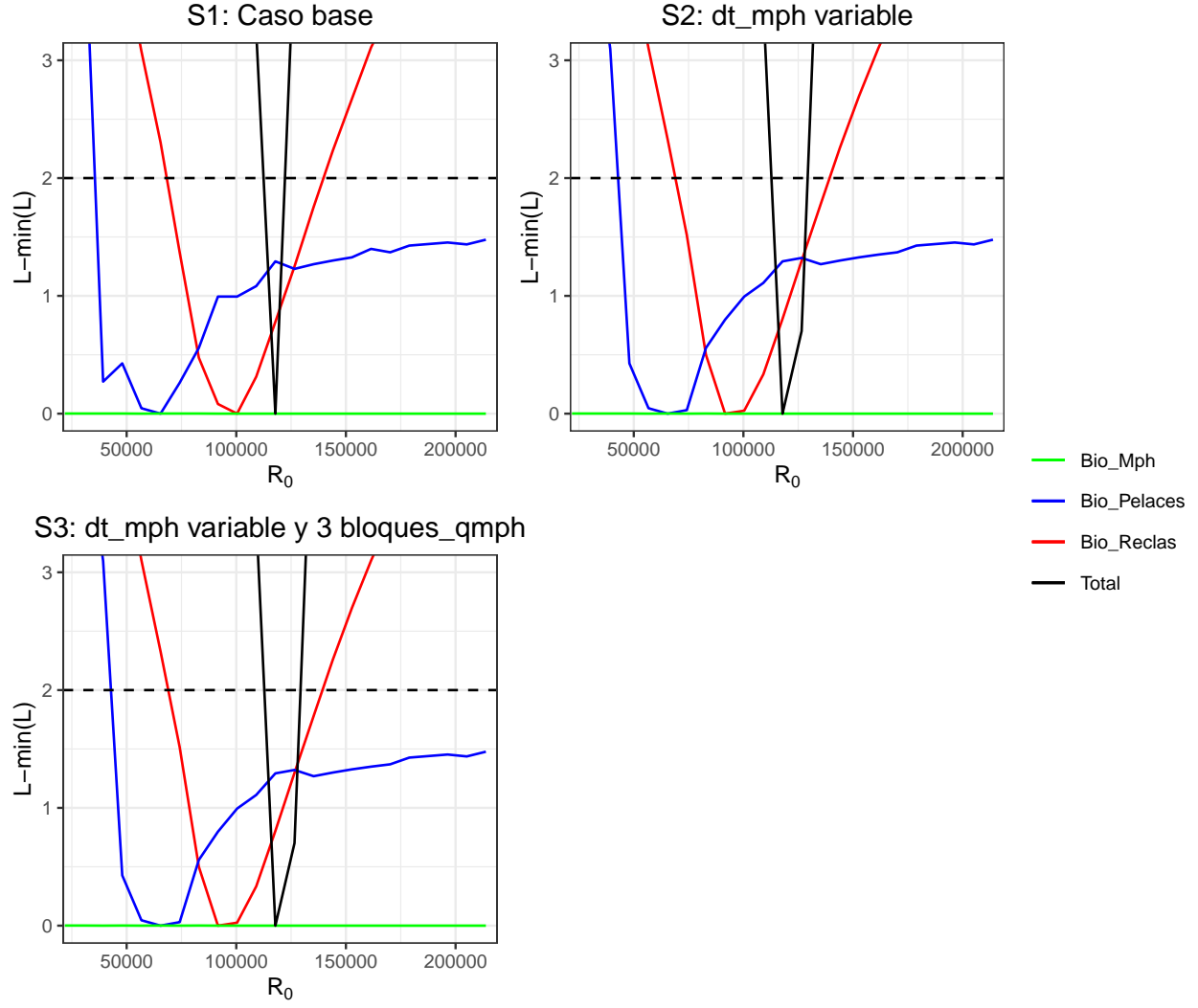


Figure 1: Perfiles de verosimilitud de las fuentes de datos para el parámetro de reclutamiento medio ( $R_0$ ), donde la línea horizontal representa el nivel crítico para el test  $\chi^2$ .

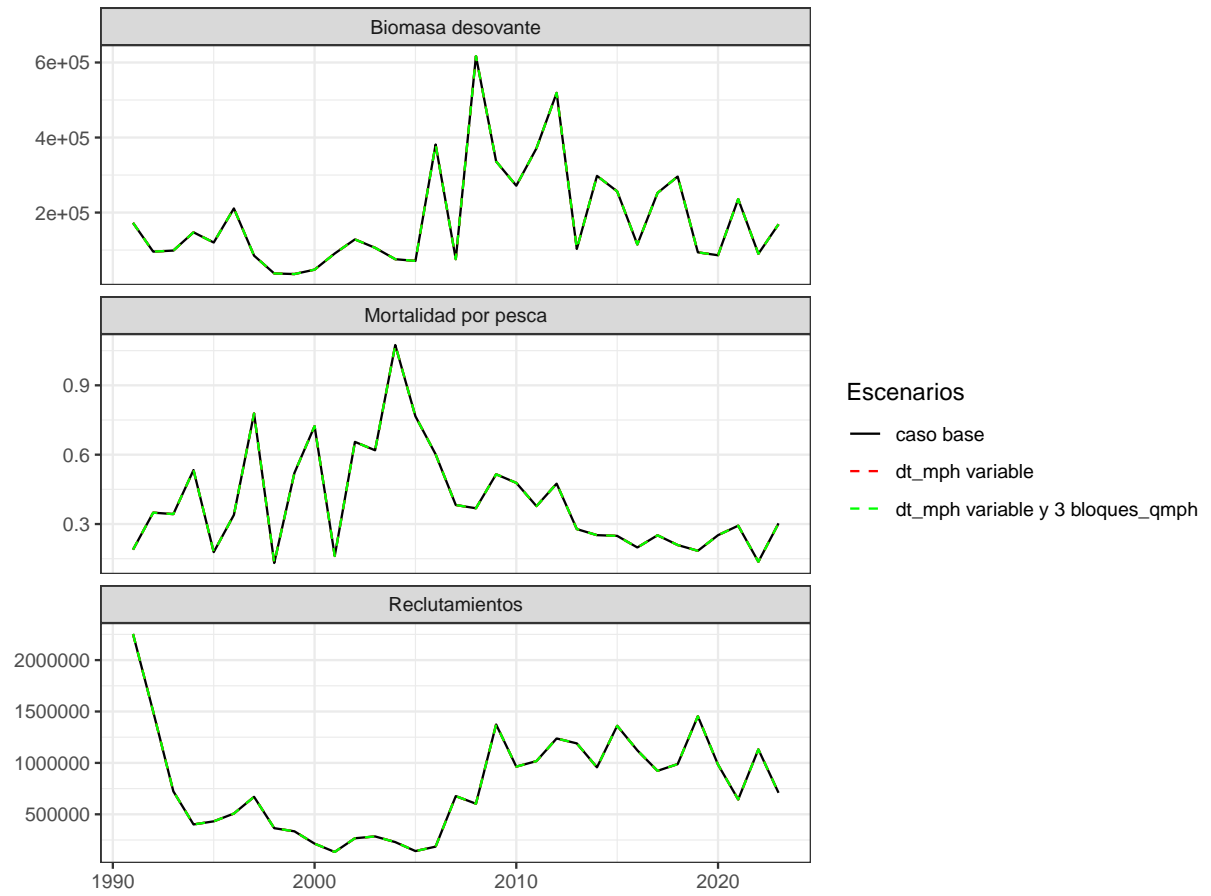
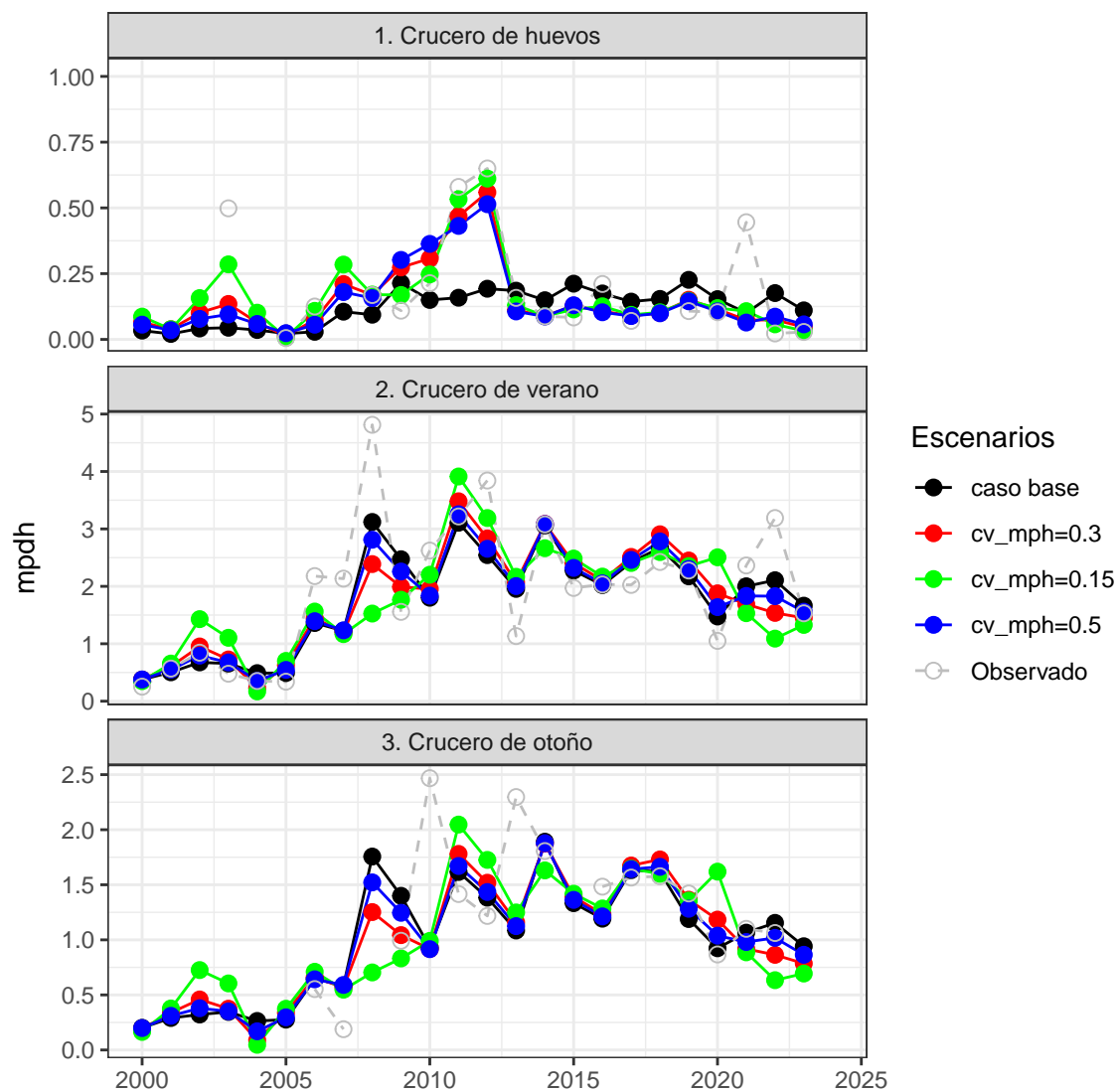
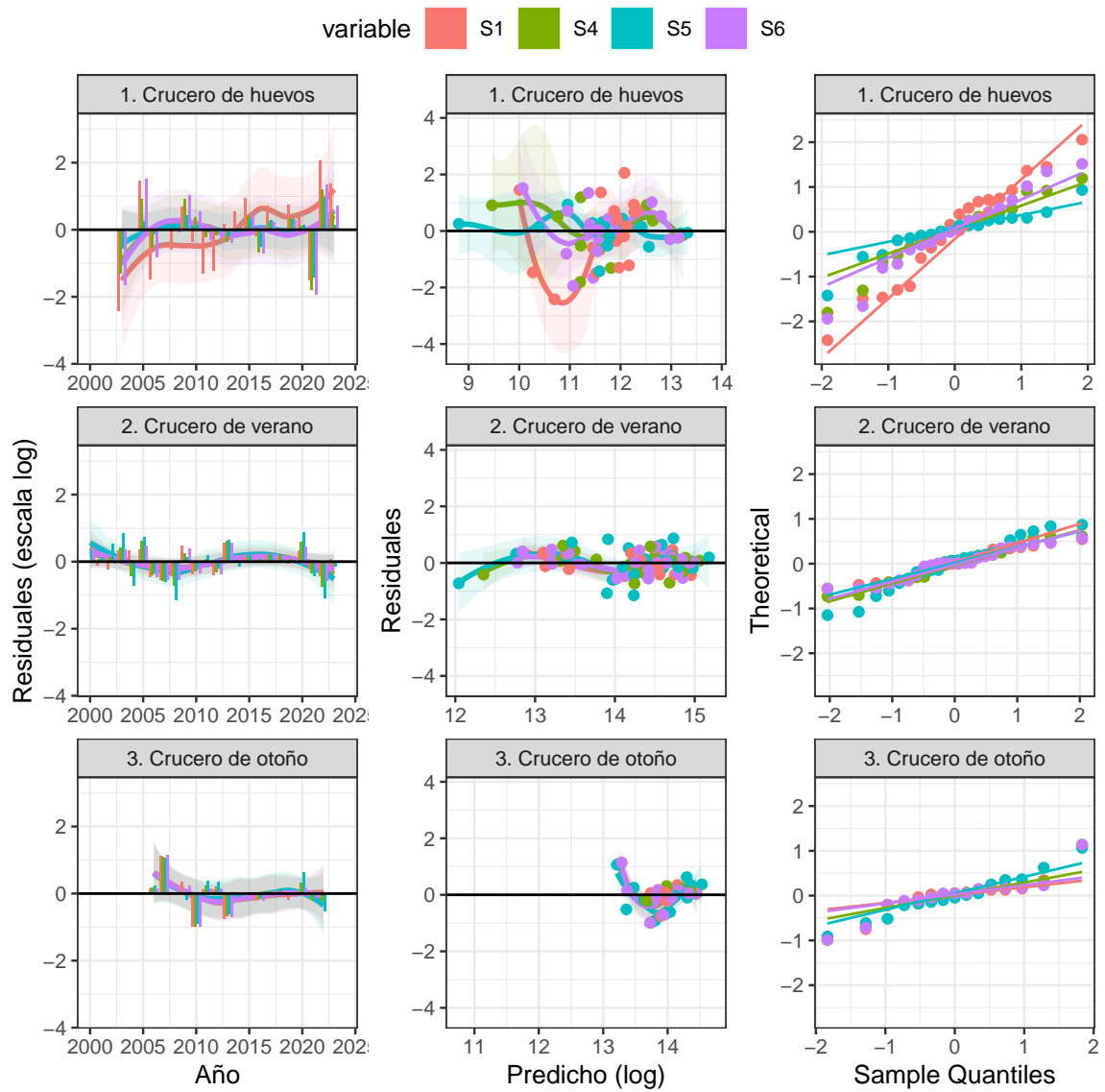


Figure 2: Variables poblacionales de sardina común

## S2 cambios en CV mph





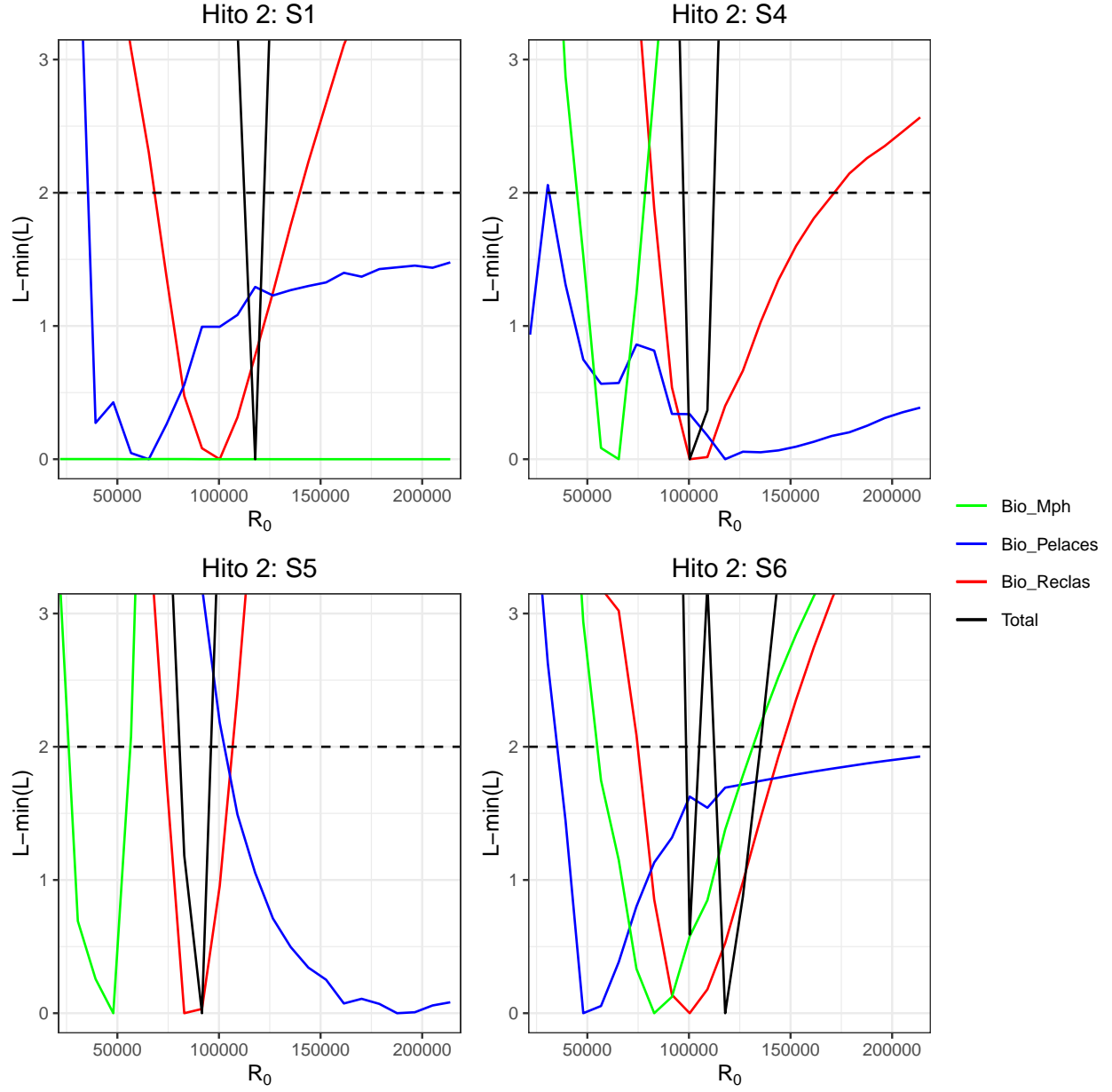
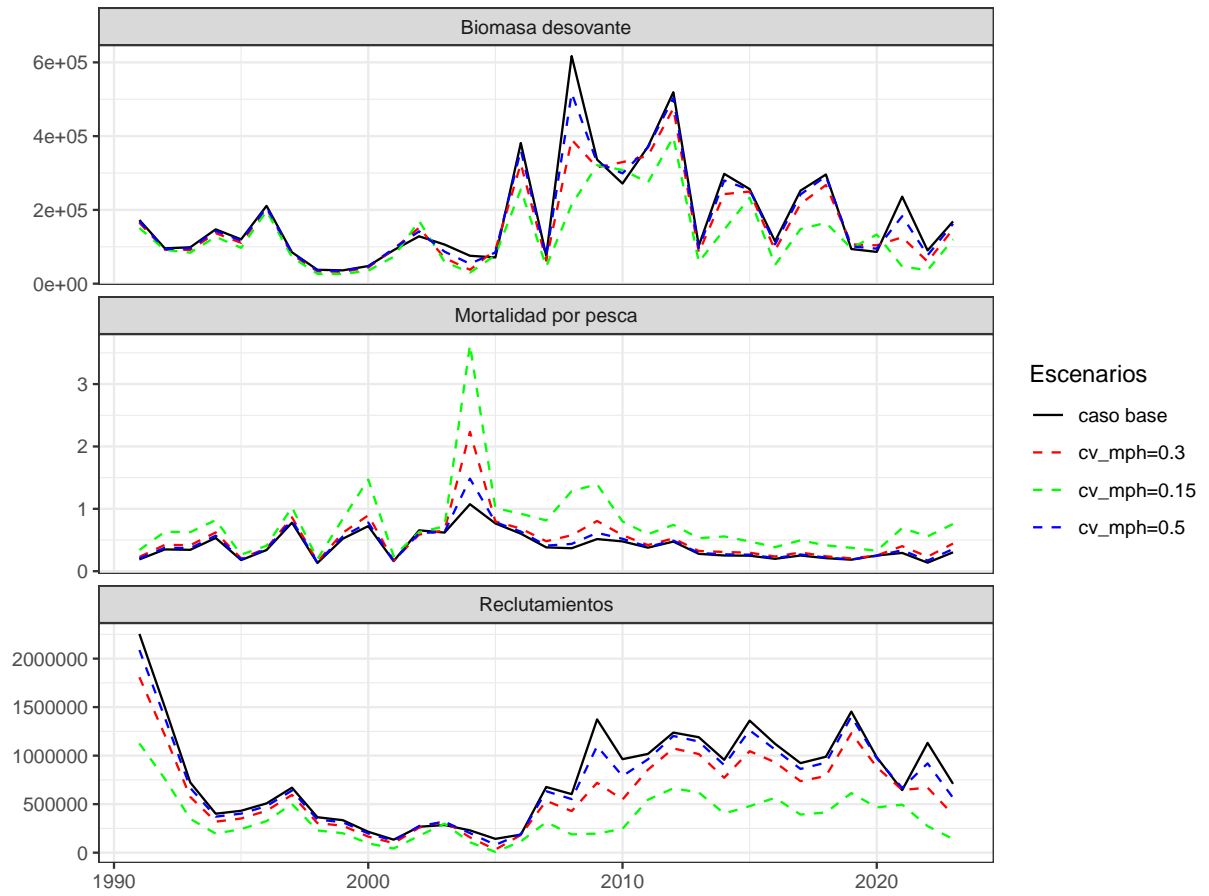


Figure 3: Perfiles de verosimilitud de las fuentes de datos para el parámetro de reclutamiento medio ( $R_0$ ), donde la línea horizontal representa el nivel crítico para el test  $\chi^2$ .





### S3 cambios en CV reclas y pelaces

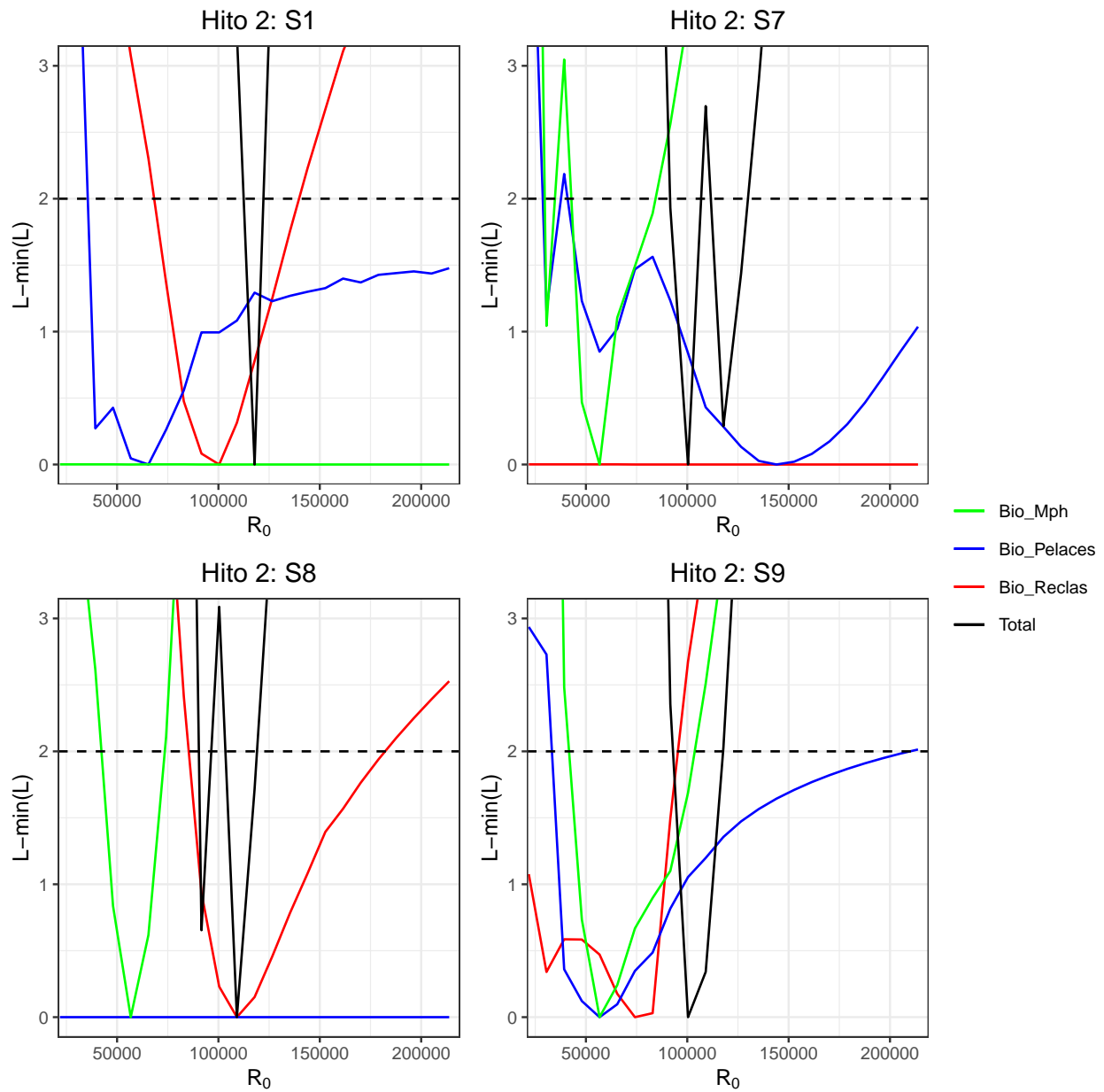
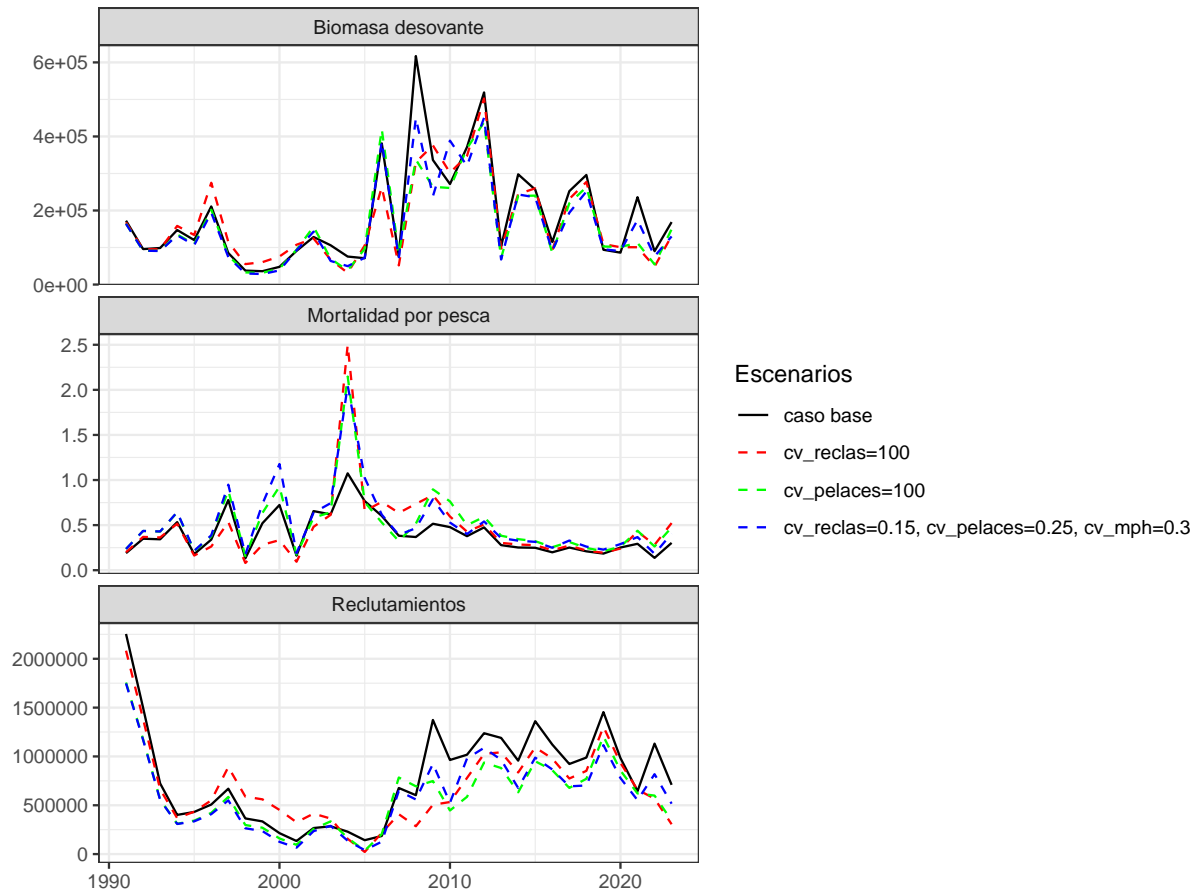
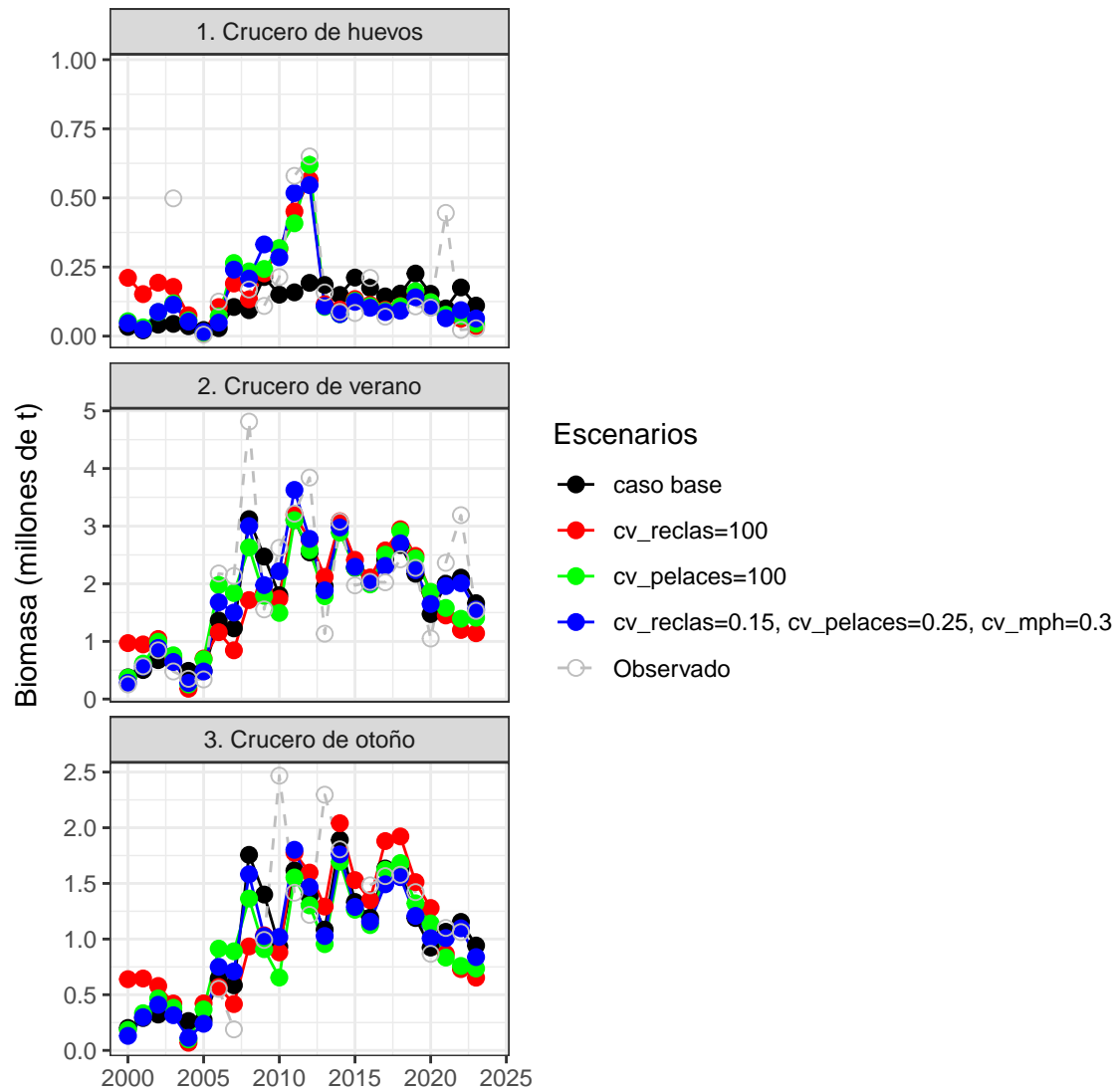
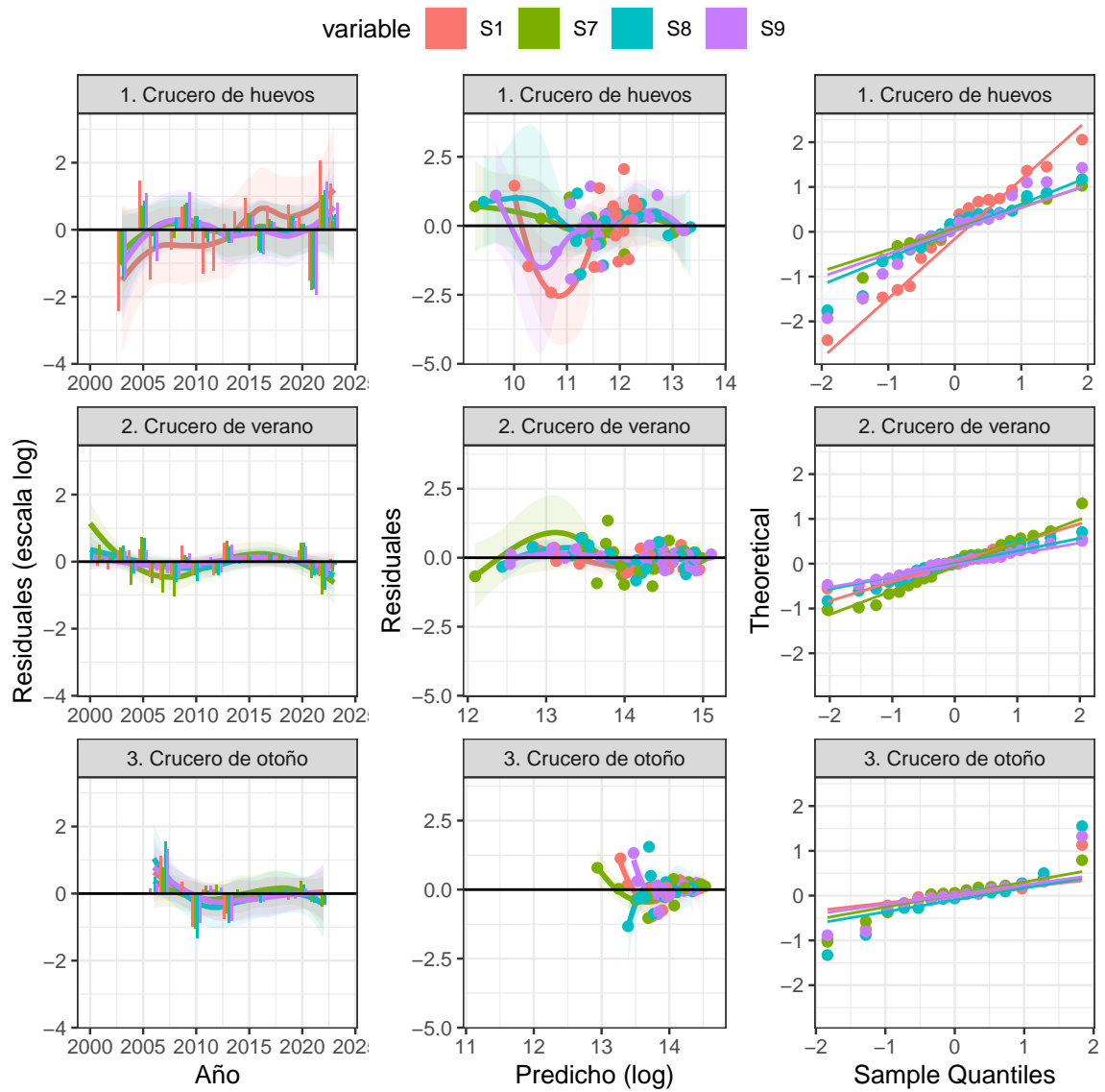


Figure 4: Perfiles de verosimilitud de las fuentes de datos para el parámetro de reclutamiento medio ( $R_0$ ), donde la línea horizontal representa el nivel crítico para el test  $\chi^2$ .

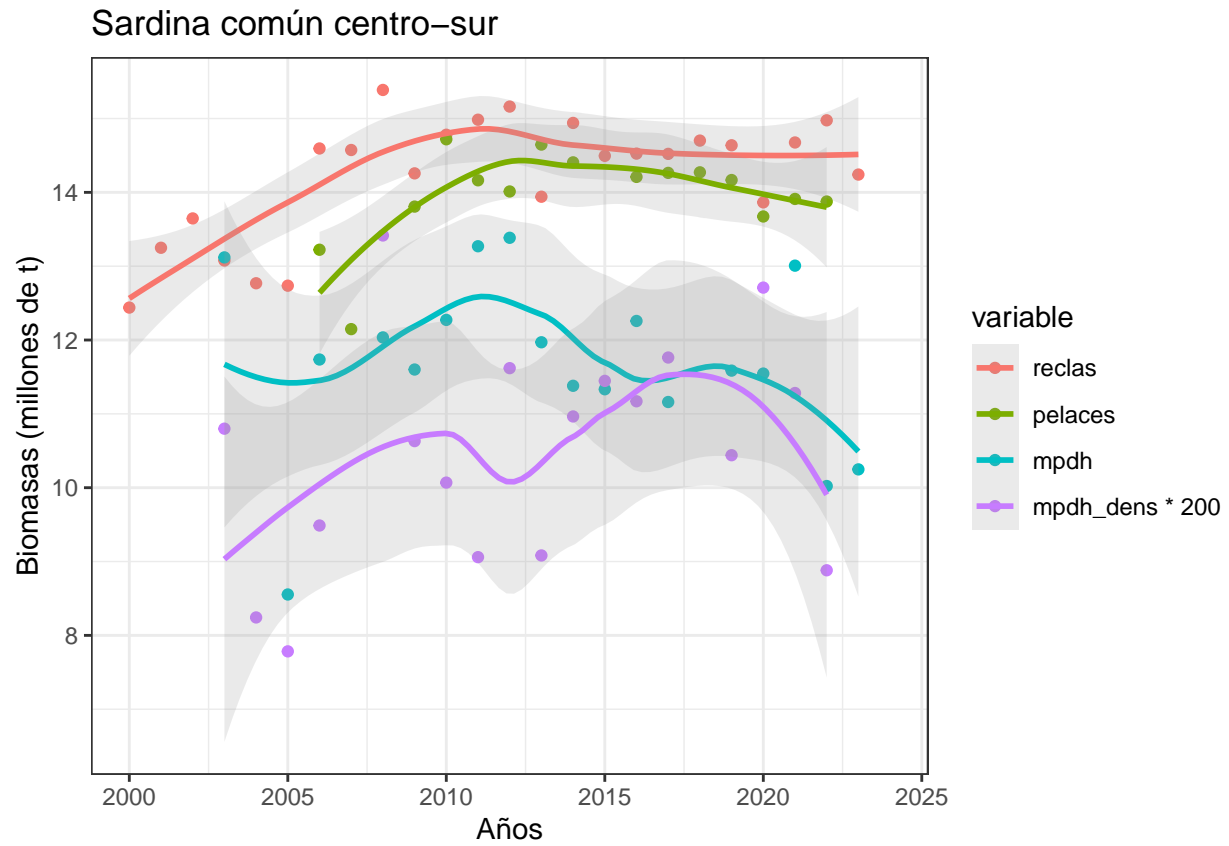
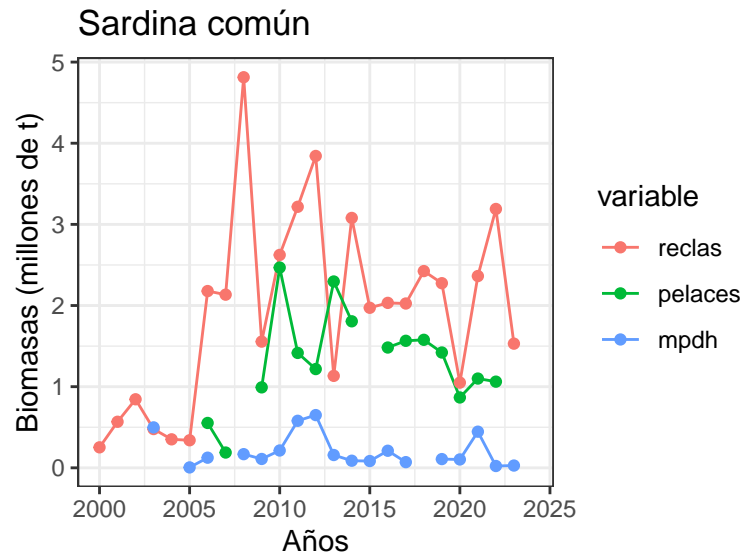






## Análisis caso base

year	reclas	cv_R	pelaces	cv_P	mpdh	cv_M	desembarque	cv_D	NA
1991	0	0.3	0	0.3	0	0.3	494567	0.01	0.16
1992	0	0.3	0	0.3	0	0.3	514787	0.01	0.16
1993	0	0.3	0	0.3	0	0.3	250237	0.01	0.16
1994	0	0.3	0	0.3	0	0.3	358949	0.01	0.16
1995	0	0.3	0	0.3	0	0.3	120608	0.01	0.16
1996	0	0.3	0	0.3	0	0.3	361735	0.01	0.16
1997	0	0.3	0	0.3	0	0.3	552515	0.01	0.16
1998	0	0.3	0	0.3	0	0.3	73892	0.01	0.16
1999	0	0.3	0	0.3	0	0.3	212993	0.01	0.16
2000	252601	0.3	0	0.3	0	0.3	205616	0.01	0.16
2001	567819	0.3	0	0.3	0	0.3	52469	0.01	0.16
2002	844713	0.3	0	0.3	0	0.3	317467	0.01	0.16
2003	477998	0.3	0	0.3	498337	0.3	293654	0.01	0.13
2004	351125	0.3	0	0.3	0	0.3	387597	0.01	0.15
2005	339783	0.3	0	0.3	5186	0.3	252695	0.01	0.14
2006	2178397	0.3	552880	0.3	125008	0.3	516296	0.01	0.14
2007	2134043	0.3	188675	0.3	0	0.3	358380	0.01	0.16
2008	4813144	0.3	0	0.3	168611	0.3	742168	0.01	0.16
2009	1555625	0.3	991730	0.3	109162	0.3	942051	0.01	0.18
2010	2623565	0.3	2467720	0.3	213762	0.3	627588	0.01	0.18
2011	3216857	0.3	1416034	0.3	579715	0.3	828172	0.01	0.20
2012	3843000	0.3	1217169	0.3	649985	0.3	859565	0.01	0.23
2013	1133477	0.3	2296489	0.3	157893	0.3	418607	0.01	0.27
2014	3079434	0.3	1805815	0.3	87575	0.3	520667	0.01	0.24
2015	1972148	0.3	0	0.3	83554	0.3	417249	0.01	0.19
2016	2032684	0.3	1482799	0.3	210694	0.3	300574	0.01	0.24
2017	2025002	0.3	1565315	0.3	70296	0.3	415391	0.01	0.19
2018	2424330	0.3	1577507	0.3	0	0.3	372974	0.01	0.16
2019	2275425	0.3	1421176	0.3	107559	0.3	316634	0.01	0.19
2020	1050175	0.3	867257	0.3	103333	0.3	284311	0.01	0.14
2021	2363380	0.3	1100020	0.3	445601	0.3	391294	0.01	0.24
2022	3189821	0.3	1062045	0.3	22526	0.3	218835	0.01	0.27
2023	1530352	0.3	0	0.3	28222	0.3	356480	0.01	0.20



```
## index      name      value std.dev
## 1    78 log_qrecl 0.46335 0.14688
## index      name      value std.dev
## 1    79 log_qpela 0.73692 0.25267
## index      name      value std.dev
## 1    80 log_qmph -0.93091 0.23671
## 2    81 log_qmph -0.54569 0.26102
```

## 3 82 log\_qmph -2.06330 0.19755

