Web Appendix
Projecting sex imbalances at birth at global, regional, and national levels from 2021 to 2100: scenario-based Bayesian probabilistic projections of the sex ratio at birth and missing female births

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List of Abbreviations

AMFB	Annual number of Missing Female Births
CMFB	Cumulative number of Missing Female Births
ENAN	the combination of countries in Europe, North America, Australia and New Zealand
SRB	Sex Ratio at Birth
TFR	Total Fertility Rate
WPP	World Population Prospect

1 Projection Scenarios

The method to produce the scenario-based projections is described in [1]. In this paper, Scenario S1 corresponds to S1 and Scenario S2 is equivalent to S3 in [1].

2 Database update

We extended a database used in prior work on estimating SRBs [2] by adding in 1,506 observations in 166 countries from surveys, censuses and civil registration and vital statistics (CRVS). In particular, we add in 653 CRVS data points since 2017 and 853 observations from censuses, Demographic and Health Surveys, and Multiple Indicator Cluster Surveys conducted since 2017. A list of newly added data sources by country is summarized in Table 1.

Table 1: **Overview of newly added data sources by country.** For each country, the total number of newly added observations and the most recent added observation year are shown after the country name. For each country-specific data series, the number of observations and the most recent observation year within that series are shown before each data series name. The source type that each data series falls in is shown in parentheses after each data series name.

Country	# added obs.	Most recent added obs. year	Data series name [source type]
Afghanistan	0	–	–
Albania	19	2019.5	
	1	2011.5	2011 Census [Census Direct]
	4	2015	2017-2018 Standard DHS [DHS Direct]
	14	2019.5	VR (DYB) [VR]
Algeria	26	2019	
	12	2012.5	2012-2013 MICS [Other DHS Direct]
	11	2019	2018-2019 MICS [Other DHS Direct]
	3	2017.5	VR (DYB) [VR]
Andorra	5	2018.5	
	5	2018.5	VR (DYB) [VR]
Angola	1	2014.5	
	1	2014.5	2014 Census [Census Direct]
Antigua and Barbuda	0	–	–
Arab Emirates	5	2018.5	
	5	2018.5	VR (DYB) [VR]
Argentina	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Armenia	4	2019.5	
	4	2019.5	VR (DYB) [VR]
Aruba	20	2019.5	
	20	2019.5	VR (DYB) [VR]
Australia	67	2018.5	
	67	2018.5	VR (HMD) [VR]
Austria	3	2018.5	
	3	2018.5	VR [VR]
Azerbaijan	4	2019.5	
	4	2019.5	VR (DYB) [VR]
Bahamas	1	2013.5	

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	1	2013.5	VR (DYB) [VR]
Bahrain	4	2018.5	
	4	2018.5	VR (DYB) [VR]
Bangladesh	31	2019	
	11	2017.5	2017-2018 Standard DHS [DHS Direct]
	20	2019	2019 MICS [Other DHS Direct]
Barbados	0	–	–
Belarus	2	2018.5	
	2	2018.5	VR (HMD) [VR]
Belgium	3	2018.5	
	3	2018.5	VR [VR]
Belize	3	2013.5	
	3	2013.5	2015-2016 MICS [Other DHS Direct]
Benin	29	2018	
	13	2014	2014 MICS [Other DHS Direct]
	16	2018	2017-2018 Standard DHS [DHS Direct]
Bhutan	0	–	–
Bolivia (Plurinational State of)	1	2012.5	
	1	2012.5	2012 Census [Census Direct]
Bosnia and Herzegovina	34	2018.5	
	34	2018.5	VR (DYB) [VR]
Botswana	1	2011.5	
	1	2011.5	2011 Census [Census Direct]
Brazil	1	2010.5	
	1	2010.5	2010 Census [Census Direct]
Brunei	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Bulgaria	7	2019.5	
	4	2019.5	VR (DYB) [VR]
	3	2018.5	VR [VR]
Burkina Faso	3	2017.5	
	3	2017.5	2017-2018 MIS [Other DHS Direct]
Burundi	0	–	–
Cote d'Ivoire	9	2016	
	9	2016	2016 MICS [Other DHS Direct]
Cambodia	0	–	–
Cameroon	18	2018	
	9	2013.5	2014 MICS [Other DHS Direct]
	9	2018	2018 Standard DHS [DHS Direct]
Canada	5	2018.5	
	2	2018.5	VR (DYB) [VR]
	3	2016.5	VR (HMD) [VR]
Cape Verde	0	–	–
Central African Republic	9	2018.5	

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	1	1959.5	1959-1960 Survey [Others Direct]
	8	2018.5	2018-2019 MICS [Other DHS Direct]
Chad	18	2019.5	
	1	1963.5	1963-1964 PS [Others Direct]
	17	2019.5	2019 MICS [Other DHS Direct]
Channel Islands	0	–	–
Chile	4	2018.5	
	1	2018.5	VR (DYB) [VR]
	3	2017.5	VR (HMD) [VR]
China	0	–	–
Macao, SAR of China	9	2020.5	
	1	2011.5	2011 Census [Census Direct]
	1	2016.5	2016 Census [Census Direct]
	1	2016.5	2016 ICS (by-census) [Others Direct]
	6	2020.5	VR (DYB) [VR]
Colombia	0	–	–
Comoros	0	–	–
Republic of the Congo	6	2014	
	6	2014	2014-2015 MICS [Other DHS Direct]
Democratic Republic of the Congo	9	2017.5	
	9	2017.5	2017-2018 MICS [Other DHS Direct]
Cook Islands	5	2017	
	5	2017	VR (DYB) [VR]
Costa Rica	3	2019.5	
	3	2019.5	VR (DYB) [VR]
Croatia	34	2019.5	
	1	2011.5	2011 Census [Census Direct]
	3	2019.5	VR (DYB) [VR]
	30	2018.5	VR [VR]
Cuba	2	2018.5	
	2	2018.5	VR (DYB) [VR]
Curacao	2	2019	
	2	2019	VR (DYB) [VR]
Cyprus	2	1976.5	
	2	1976.5	VR (DYB) [VR]
Czech Republic	5	2019.5	
	3	2019.5	VR (DYB) [VR]
	2	2018.5	VR [VR]
Denmark	5	2019.5	
	3	2019.5	VR (HMD) [VR]
	2	2018.5	VR [VR]
Djibouti	0	–	–
Dominica	5	2016.5	
	5	2016.5	VR (DYB) [VR]

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
Dominican Republic	10	2014	
	10	2014	2014 MICS [Other DHS Direct]
Ecuador	0	–	–
Egypt	3	2017.5	
	3	2017.5	VR (DYB) [VR]
El Salvador	9	2018.5	
	6	2013.5	2014 MICS [Other DHS Direct]
	3	2018.5	VR (DYB) [VR]
Equatorial Guinea	0	–	–
Eritrea	0	–	–
Estonia	8	2019.5	
	1	2011.5	2011-2012 Census [Census Direct]
	4	2019.5	VR (DYB) [VR]
	3	2018.5	VR [VR]
Ethiopia	0	–	–
Fiji	10	2017.5	
	10	2017.5	VR (DYB) [VR]
Finland	7	2019.5	
	4	2019.5	VR (HMD) [VR]
	3	2018.5	VR [VR]
France	4	2019.5	
	1	2019.5	VR (DYB) [VR]
	3	2018.5	VR (HMD) [VR]
French Guiana	2	2016.5	
	2	2016.5	VR (DYB) [VR]
French Polynesia	10	2018.5	
	10	2018.5	VR (DYB) [VR]
Gabon	1	1960.5	
	1	1960.5	1960-1961 Census (Libreville) [Census Direct]
Gambia	7	2017	
	7	2017	2018 MICS [Other DHS Direct]
Georgia	2	2018.5	
	2	2018.5	VR (DYB) [VR]
Germany	14	2019.5	
	2	2019.5	VR (DYB) [VR]
	12	2017.5	VR (HMD) [VR]
Ghana	15	2017.5	
	6	2010.5	2011 MICS [Other DHS Direct]
	7	2017	2017-2018 MICS [Other DHS Direct]
	2	2017.5	2019 MIS [Other DHS Direct]
Greece	6	2018.5	
	6	2018.5	VR (DYB) [VR]
Grenada	8	2017	

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	8	2017	VR (DYB) [VR]
Guadeloupe	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Guam	4	2018.5	
	4	2018.5	VR (DYB) [VR]
Guatemala	8	2018.5	
	8	2018.5	VR (DYB) [VR]
Guinea	18	2018	
	1	2014.5	2014 Census [Census Direct]
	8	2016	2016 MICS [Other DHS Direct]
	9	2018	2018 Standard DHS [DHS Direct]
Guinea-Bissau	17	2018.5	
	8	2013.5	2014 MICS [Other DHS Direct]
	9	2018.5	2018-2019 MICS [Other DHS Direct]
Guyana	3	2012.5	
	3	2012.5	2014 MICS [Other DHS Direct]
Haiti	0	–	–
Honduras	0	–	–
Hong Kong, SAR of China	10	1989.5	
	10	1989.5	VR (DYB) [VR]
Hungary	5	2018.5	
	2	2017.5	VR (HMD) [VR]
	3	2018.5	VR [VR]
Iceland	2	2018.5	
	2	2018.5	VR [VR]
India	0	–	–
Indonesia	18	2017	
	18	2017	2017 Standard DHS [DHS Direct]
Iran (Islamic Republic of)	6	2018.5	
	1	2006.5	2006 Census [Census Direct]
	1	2011.5	2011 Census [Census Direct]
	4	2018.5	VR (DYB) [VR]
Iraq	45	2017.5	
	17	2006	2006 MICS [Other DHS Direct]
	19	2011	2011 MICS [Other DHS Direct]
	9	2017.5	2018 MICS [Other DHS Direct]
Ireland	5	2018.5	
	5	2018.5	VR (HMD) [VR]
Israel	3	2018.5	
	2	2018.5	VR (DYB) [VR]
	1	2016.5	VR (HMD) [VR]
Italy	6	2018.5	
	6	2018.5	VR [VR]
Jamaica	14	2018.5	

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	1	2011.5	2011 Census [Census Direct]
	13	2018.5	VR (DYB) [VR]
Japan	2	2018.5	
	2	2018.5	VR (HMD) [VR]
Jordan	11	2017.5	
	9	2017	2017-2018 Standard DHS [DHS Direct]
	2	2017.5	VR (DYB) [VR]
Kazakhstan	6	2019.5	
	6	2019.5	VR (DYB) [VR]
Kenya	1	2019.5	
	1	2019.5	2019 Census [Census Direct]
Kiribati	4	2017.5	
	4	2017.5	2018-2019 MICS [Other DHS Direct]
Democratic People's Republic of Korea	0	–	–
Republic of Korea	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Kuwait	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Kyrgyz Republic	11	2018.5	
	5	2013.5	2014 MICS [Other DHS Direct]
	4	2016.5	2018 MICS [Other DHS Direct]
	2	2018.5	VR (DYB) [VR]
Laos	37	2017	
	1	1995.5	1995 Census [Census Direct]
	18	2012	2011-2012 MICS [Other DHS Direct]
	1	2015.5	2015 Census [Census Direct]
	17	2017	2017 MICS [Other DHS Direct]
Latvia	3	2018.5	
	3	2018.5	VR [VR]
Lebanon	0	–	–
Lesotho	3	2015.5	
	3	2015.5	2018 MICS [Other DHS Direct]
Liberia	0	–	–
Libya	0	–	–
Lithuania	9	2019.5	
	2	2011.5	2011 Census [Census Direct]
	4	2019.5	VR (HMD) [VR]
	3	2018.5	VR [VR]
Luxembourg	7	2019.5	
	4	2019.5	VR (HMD) [VR]
	3	2018.5	VR [VR]
Macedonia	33	2018.5	
	1	2011.5	2018-2019 MICS [Other DHS Direct]

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	32	2018.5	VR (DYB) [VR]
Madagascar	13	2018	
	13	2018	2018 MICS [Other DHS Direct]
Malawi	32	2014	
	15	2006	2006 MICS [Other DHS Direct]
	1	2008.5	2008 Census [Census Direct]
	16	2014	2013-2014 MICS [Other DHS Direct]
Malaysia	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Maldives	7	2017.5	
	1	2014.5	2014 Census [Census Direct]
	3	2015	2016-2017 Standard DHS [DHS Direct]
	3	2017.5	VR (DYB) [VR]
Mali	26	2018	
	15	2015.5	2015 MICS [Other DHS Direct]
	11	2018	2018 Standard DHS [DHS Direct]
Malta	20	2018.5	
	1	2011.5	2011 Census [Census Direct]
	19	2018.5	VR (DYB) [VR]
Marshall Islands	0	–	–
Martinique	3	2017.5	
	3	2017.5	VR (DYB) [VR]
Mauritania	19	2015	
	10	2011	2011 MICS [Other DHS Direct]
	9	2015	2015 MICS [Other DHS Direct]
Mauritius	4	2019.5	
	4	2019.5	VR (DYB) [VR]
Mayotte	4	2018.5	
	4	2018.5	VR (DYB) [VR]
Mexico	11	2018.5	
	11	2018.5	VR (DYB) [VR]
Micronesia	0	–	–
Republic of Moldova	7	2018.5	
	3	2009	2012 MICS [Other DHS Direct]
	4	2018.5	VR (DYB) [VR]
Monaco	1	2018	
	1	2018	VR (DYB) [VR]
Mongolia	26	2019.5	
	1	1955.5	1956 Census [Census Direct]
	1	1962.5	1963 Census [Census Direct]
	1	1968.5	1969 Census [Census Direct]
	1	1978.5	1979 Census [Census Direct]
	1	1988.5	1989 Census [Census Direct]
	1	1999.5	2000 Census [Census Direct]
	1	2010.5	2010 Census [Census Direct]

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	9	2013	2013 MICS [Other DHS Direct]
	5	2017	2018 MICS [Other DHS Direct]
	5	2019.5	VR (DYB) [VR]
Montenegro	3	2019.5	
	3	2019.5	VR (DYB) [VR]
Morocco	0	–	–
Mozambique	11	2016.5	
	9	2008	2008 MICS [Other DHS Direct]
	2	2016.5	2018 MIS [Other DHS Direct]
Myanmar	0	–	–
Namibia	0	–	–
Nauru	3	2016.5	
	3	2016.5	VR (DYB) [VR]
Nepal	8	2016.5	
	4	2015.5	2014 MICS [Other DHS Direct]
	4	2016.5	2019 MICS [Other DHS Direct]
Netherlands	2	2018.5	
	2	2018.5	VR [VR]
New Caledonia	9	2017.5	
	9	2017.5	VR (DYB) [VR]
New Zealand	11	2019.5	
	1	2006.5	2006 Census [Census Direct]
	5	2019.5	VR (DYB) [VR]
	5	2013.5	VR (HMD) [VR]
Nicaragua	0	–	–
Niger	0	–	–
Nigeria	40	2018.5	
	19	2017	2016-2017 MICS [Other DHS Direct]
	21	2018.5	2018 Standard DHS [DHS Direct]
Niue	2	2013.5	
	2	2013.5	VR (DYB) [VR]
Norway	3	2018.5	
	3	2018.5	VR [VR]
Oman	3	2019.5	
	3	2019.5	VR (DYB) [VR]
Pakistan	12	2019	
	10	2017.5	2017-2018 Standard DHS [DHS Direct]
	2	2019	2019 Special DHS [Other DHS Direct]
Palau	3	2017	
	3	2017	VR (DYB) [VR]
Panama	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Papua New Guinea	6	2017	
	6	2017	2016-2018 Standard DHS [DHS Direct]

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
Paraguay	3	2015	
	3	2015	2016 MICS [Other DHS Direct]
Peru	0	–	–
Philippines	0	–	–
Poland	5	2019.5	
	1	2011.5	2011 Census [Census Direct]
	1	2019.5	VR (DYB) [VR]
	3	2018.5	VR (HMD) [VR]
Portugal	4	2018.5	
	1	2011.5	2011 Census [Census Direct]
	3	2018.5	VR (HMD) [VR]
Puerto Rico	1	2010.5	
	1	2010.5	2010 Census [Census Direct]
Qatar	4	2019.5	
	4	2019.5	VR (DYB) [VR]
Reunion	4	2018.5	
	4	2018.5	VR (DYB) [VR]
Romania	19	2019.5	
	1	2011.5	2011 Census [Census Direct]
	18	2019.5	VR (DYB) [VR]
Russian Federation	1	2017.5	
	1	2017.5	VR (DYB) [VR]
Rwanda	0	–	–
Saint Kitts and Nevis	0	–	–
Saint Lucia	8	2014.5	
	8	2014.5	VR (DYB) [VR]
Samoa	1	2016.5	
	1	2016.5	2016 Census [Census Direct]
San Marino	5	2016	
	5	2016	VR (DYB) [VR]
Sao Tome and Principe	6	2017	
	3	2012	2014 MICS [Other DHS Direct]
	3	2017	2019 MICS [Other DHS Direct]
Saudi Arabia	5	2017.5	
	1	2004.5	2004 Census [Census Direct]
	1	2007.5	2007 DS [Others Direct]
	1	2010.5	2010 Census [Census Direct]
	1	2016.5	2016 DS [Others Direct]
	1	2017.5	2017 DS [Others Direct]
Senegal	12	2018.5	
	1	2013.5	2013 Census [Census Direct]
	6	2017.5	2018 Continuous DHS [Other DHS Direct]
	5	2018.5	2019 Continuous DHS [Other DHS Direct]
Serbia	0	–	–

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
Seychelles	4	2019.5	
	4	2019.5	VR (DYB) [VR]
Sierra Leone	24	2019	
	13	2017	2017 MICS [Other DHS Direct]
	11	2019	2019 Standard DHS [DHS Direct]
Singapore	4	2019.5	
	4	2019.5	VR (DYB) [VR]
Slovakia	4	2019.5	
	1	2019.5	VR (DYB) [VR]
	3	2018.5	VR (HMD) [VR]
Slovenia	7	2019.5	
	4	2019.5	VR (DYB) [VR]
	3	2018.5	VR [VR]
Solomon Islands	0	–	–
Somalia	8	2006	
	8	2006	2006 MICS [Other DHS Direct]
South Africa	4	2014.5	
	4	2014.5	2016 Standard DHS [DHS Direct]
South Sudan	10	2010	
	10	2010	2010 MICS [Other DHS Direct]
Spain	3	2018.5	
	3	2018.5	VR [VR]
Sri Lanka	5	2012.5	
	5	2012.5	VR (DYB) [VR]
Saint Vincent and the Grenadines	4	2019	
	4	2019	VR (DYB) [VR]
State of Palestine	40	2019.5	
	20	2010	2010 MICS [Other DHS Direct]
	11	2014	2014 MICS [Other DHS Direct]
	9	2019.5	2019-2020 MICS [Other DHS Direct]
Sudan	23	2014	
	11	2010	2010 MICS [Other DHS Direct]
	12	2014	2014 MICS [Other DHS Direct]
Suriname	6	2018.5	
	3	2016.5	2018 MICS [Other DHS Direct]
	3	2018.5	VR (DYB) [VR]
Swaziland	8	2013	
	4	2009	2010 MICS [Other DHS Direct]
	4	2013	2014 MICS [Other DHS Direct]
Sweden	5	2019.5	
	3	2019.5	VR (HMD) [VR]
	2	2018.5	VR [VR]
Switzerland	5	2019.5	
	3	2019.5	VR (DYB) [VR]

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
	2	2018.5	VR [VR]
Syria	0	–	–
Taiwan, Province of China	0	–	–
Tajikistan	0	–	–
Tanzania	0	–	–
Thailand	0	–	–
Timor-Leste	0	–	–
Togo	2	2010.5	
	1	1961.5	1961 ED [Others Direct]
	1	2010.5	2010 Census [Census Direct]
Tonga	2	2016	
	2	2016	2019 MICS [Other DHS Direct]
Trinidad and Tobago	3	2018.5	
	3	2018.5	VR (DYB) [VR]
Tunisia	12	2017.5	
	4	2010.5	2011-2012 MICS [Other DHS Direct]
	6	2017	2018 MICS [Other DHS Direct]
	2	2017.5	VR (DYB) [VR]
Turkey	14	2018.5	
	6	2007.5	2008 Standard DHS [DHS Direct]
	5	2012	2013 Standard DHS [DHS Direct]
	3	2018.5	VR [VR]
Turkmenistan	10	2018	
	5	2014.5	2015-2016 MICS [Other DHS Direct]
	5	2018	2019 MICS [Other DHS Direct]
Tuvalu	0	–	–
United Kingdom	2	2018.5	
	2	2018.5	VR (HMD) [VR]
United States of America	2	2018.5	
	2	2018.5	VR (HMD) [VR]
Uganda	3	2018.5	
	3	2018.5	2018-2019 MIS [Other DHS Direct]
Ukraine	10	2018.5	
	3	2011	2012 MICS [Other DHS Direct]
	4	2018.5	VR (DYB) [VR]
	3	2012.5	VR (HMD) [VR]
Uruguay	6	2019.5	
	6	2019.5	VR (DYB) [VR]
United States Virgin Islands	0	–	–
Uzbekistan	5	2019.5	
	5	2019.5	VR (DYB) [VR]
Vanuatu	0	–	–
Venezuela (Bolivarian Republic of)	2	2017.5	
	2	2017.5	VR (DYB) [VR]

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Country	# added obs.	Most recent added obs. year	Data series name [source type]
Vietnam	6	2012.5	
	6	2012.5	2013-2014 MICS [Other DHS Direct]
Western Sahara	0	–	–
Yemen	7	2005.5	
	7	2005.5	2006 MICS [Other DHS Direct]
Zambia	9	2018.5	
	9	2018.5	2018 Standard DHS [DHS Direct]
Zimbabwe	28	2018.5	
	1	1969.5	1969 Census [Census Direct]
	1	1992.5	1992 Census [Census Direct]
	8	2008.5	2009 MICS [Other DHS Direct]
	10	2014	2014 MICS [Other DHS Direct]
	8	2018.5	2019 MICS [Other DHS Direct]

3 Supplementary Tables

Scenario type	[212] Country
Two different scenarios: for countries at risk of SRB inflation, but without strong statistical evidence of SRB inflation	[17] Afghanistan; Bangladesh; Egypt; Gambia; Jordan; Mali; Mauritania; Morocco; Nepal; Nigeria; Pakistan; Senegal; Singapore; Tajikistan; Tanzania; Turkey; Uganda
One scenario: for countries with strong statistical evidence of SRB inflation	[12] Albania; Armenia; Azerbaijan; China; Georgia; Hong Kong, SAR of China; India; Republic of Korea; Montenegro; Taiwan, Province of China; Tunisia; Vietnam
One scenario: for countries not at risk of SRB inflation	[183] Algeria; Andorra; Angola; Antigua and Barbuda; Arab Emirates; Argentina; Aruba; Australia; Austria; Bahamas; Bahrain; Barbados; Belarus; Belgium; Belize; Benin; Bhutan; Bolivia (Plurinational State of); Bosnia and Herzegovina; Botswana; Brazil; Brunei; Bulgaria; Burkina Faso; Burundi; Cote d'Ivoire; Cambodia; Cameroon; Canada; Cape Verde; Central African Republic; Chad; Channel Islands; Chile; Macao, SAR of China; Colombia; Comoros; Republic of the Congo; Democratic Republic of the Congo; Cook Islands; Costa Rica; Croatia; Cuba; Curacao; Cyprus; Czech Republic; Denmark; Djibouti; Dominica; Dominican Republic; Ecuador; El Salvador; Equatorial Guinea; Eritrea; Estonia; Ethiopia; Fiji; Finland; France; French Guiana; French Polynesia; Gabon; Germany; Ghana; Greece; Grenada; Guadeloupe; Guam; Guatemala; Guinea; Guinea-Bissau; Guyana; Haiti; Honduras; Hungary; Iceland; Indonesia; Iran (Islamic Republic of); Iraq; Ireland; Israel; Italy; Jamaica; Japan; Kazakhstan; Kenya; Kiribati; Democratic People's Republic of Korea; Kuwait; Kyrgyz Republic; Laos; Latvia; Lebanon; Lesotho; Liberia; Libya; Lithuania; Luxembourg; Macedonia; Madagascar; Malawi; Malaysia; Maldives; Malta; Marshall Islands; Martinique; Mauritius; Mayotte; Mexico; Micronesia; Republic of Moldova; Monaco; Mongolia; Mozambique; Myanmar; Namibia; Nauru; Netherlands; New Caledonia; New Zealand; Nicaragua; Niger; Niue; Norway; Oman; Palau; Panama; Papua New Guinea; Paraguay; Peru; Philippines; Poland; Portugal; Puerto Rico; Qatar; Reunion; Romania; Russian Federation; Rwanda; Saint Kitts and Nevis; Saint Lucia; Samoa; San Marino; Sao Tome and Principe; Saudi Arabia; Serbia; Seychelles; Sierra Leone; Slovakia; Slovenia; Solomon Islands; Somalia; South Africa; South Sudan; Spain; Sri Lanka; Saint Vincent and the Grenadines; State of Palestine; Sudan; Suriname; Swaziland; Sweden; Switzerland; Syria; Thailand; Timor-Leste; Togo; Tonga; Trinidad and Tobago; Turkmenistan; Tuvalu; United Kingdom; United States of America; Ukraine; Uruguay; United States Virgin Islands; Uzbekistan; Vanuatu; Venezuela (Bolivarian Republic of); Western Sahara; Yemen; Zambia; Zimbabwe

Table 2: **Type of SRB projections expected by country.** Numbers in the red are the number of countries fall into each category.

World/Region	Sex Ratio at Birth					
	Estimate		Projection (Scenario 1)		Projection (Scenario 2)	
	Regional Baseline	2020	2030	2100	2030	2100
World	–	1.063 [1.054; 1.072]	1.052 [1.045; 1.061]	1.045 [1.040; 1.050]	1.055 [1.047; 1.064]	1.048 [1.041; 1.057]
southern Asia	1.050 [1.038; 1.061]	1.077 [1.055; 1.098]	1.060 [1.038; 1.085]	1.053 [1.034; 1.072]	1.067 [1.043; 1.096]	1.054 [1.035; 1.073]
ENAN	1.058 [1.055; 1.062]	1.053 [1.049; 1.058]	1.055 [1.048; 1.062]	1.054 [1.047; 1.062]	1.055 [1.048; 1.062]	1.054 [1.047; 1.062]
northern Africa	1.051 [1.037; 1.064]	1.051 [1.034; 1.067]	1.053 [1.035; 1.071]	1.054 [1.035; 1.074]	1.062 [1.039; 1.116]	1.055 [1.036; 1.090]
sub-Saharan Africa	1.032 [1.027; 1.036]	1.034 [1.028; 1.041]	1.034 [1.027; 1.041]	1.034 [1.026; 1.041]	1.035 [1.028; 1.043]	1.038 [1.029; 1.057]
Latin America and the Caribbean	1.041 [1.038; 1.045]	1.044 [1.037; 1.051]	1.044 [1.036; 1.052]	1.044 [1.036; 1.051]	1.044 [1.036; 1.052]	1.044 [1.036; 1.051]
western Asia	1.050 [1.044; 1.056]	1.054 [1.045; 1.063]	1.053 [1.043; 1.063]	1.053 [1.043; 1.063]	1.054 [1.044; 1.066]	1.053 [1.043; 1.063]
Caucasus and central Asia	1.064 [1.052; 1.076]	1.077 [1.068; 1.086]	1.069 [1.058; 1.080]	1.066 [1.054; 1.078]	1.070 [1.059; 1.086]	1.067 [1.055; 1.084]
southeastern Asia	1.064 [1.055; 1.072]	1.072 [1.060; 1.086]	1.068 [1.056; 1.082]	1.065 [1.054; 1.076]	1.068 [1.056; 1.083]	1.065 [1.054; 1.076]
eastern Asia	1.061 [1.051; 1.070]	1.116 [1.060; 1.174]	1.074 [1.042; 1.135]	1.060 [1.038; 1.084]	1.074 [1.042; 1.135]	1.060 [1.038; 1.084]
Oceania	1.070 [1.061; 1.079]	1.075 [1.056; 1.095]	1.075 [1.054; 1.095]	1.074 [1.054; 1.095]	1.075 [1.054; 1.095]	1.074 [1.054; 1.095]

Table 3: **Global and regional projections of sex ratio at birth, by scenario.** Region groupings are in the estimation paper [3]. The median projections are the numbers before the brackets. The numbers inside the brackets are the 95% uncertainty intervals of the median projections. ENAN: the combination of countries in Europe, North America, Australia, and New Zealand.

Country (Region)	Inflation End Year	Cumulative Number of Missing Female Births	
		,000 (1970–2020)	,000 (2021–2100)
India (southern Asia)	2034 [2020; 2054]	22,172 [16,600; 28,301]	2,503 [0; 8,049]
Albania (ENAN)	2026 [2018; 2043]	22 [18; 27]	1 [0; 3]
Montenegro (ENAN)	2029 [2018; 2047]	5 [2; 8]	0 [0; 1]
Tunisia (northern Africa)	2025 [2014; 2043]	76 [46; 109]	3 [0; 18]
Armenia (Caucasus and central Asia)	2028 [2023; 2039]	40 [33; 46]	2 [0; 8]
Azerbaijan (Caucasus and central Asia)	2037 [2027; 2052]	153 [129; 181]	32 [9; 74]
Georgia (Caucasus and central Asia)	2020 [2008; 2037]	25 [12; 55]	0 [0; 3]
Vietnam (southeastern Asia)	2039 [2019; 2063]	638 [280; 1,054]	339 [0; 1,550]
China (eastern Asia)	2033 [2019; 2052]	25,687 [18,823; 33,714]	2,831 [0; 10,554]
Hong Kong, SAR of China (eastern Asia)	2013 [2013; 2014]	13 [10; 17]	0 [0; 0]
Republic of Korea (eastern Asia)	2007 [2004; 2012]	311 [284; 341]	0 [0; 0]
Taiwan, Province of China (eastern Asia)	2026 [2014; 2043]	102 [58; 149]	4 [0; 19]

Table 4: **Scenario S1 projection results for the 12 countries with strong statistical evidence of SRB inflation.** Median estimates/projections are numbers before the brackets. Numbers in the brackets are 95% uncertainty intervals. Countries are presented by region.

Table 5: **Scenario S1: Average AMFB for periods 2021–2030, 2031–2100, 2021–2100 and CMFB for periods 2021–2030, 2031–2100, 2021–2100, by country.** AMFB: Annual Number of Missing Female Births. CMFB: Cumulative Number of Missing Female Births. *: countries at risk of future SRB inflation. Countries without * are those with past/ongoing SRB inflation. Countries are presented by region. Median estimates are the numbers before the brackets. Numbers in brackets are 95% uncertainty intervals. Region "ENAN" refers to the combination of countries in Europe, North America, Australia, and New Zealand.

Country (Region)	**Scenario S1**					
	AMFB (in ,000)			**CMFB (in ,000)**		
	2021–2030	**2031–2100**	**2021–2100**	**2021–2030**	**2031–2100**	**2021–2100**
India (southern Asia)	209 [0; 523]	6 [0; 47]	31 [0; 101]	2,092 [0; 5,228]	411 [0; 3,295]	2,503 [0; 8,049]
Albania (ENAN)	0 [0; 0]	0 [0; 0]	0 [0; 0]	1 [0; 2]	0 [0; 1]	1 [0; 3]
Montenegro (ENAN)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 1]	0 [0; 0]	0 [0; 1]
Tunisia (northern Africa)	0 [0; 1]	0 [0; 0]	0 [0; 0]	3 [0; 13]	0 [0; 5]	3 [0; 18]
Armenia (Caucasus and central Asia)	0 [0; 1]	0 [0; 0]	0 [0; 0]	2 [0; 6]	0 [0; 2]	2 [0; 8]
Azerbaijan (Caucasus and central Asia)	3 [1; 4]	0 [0; 0]	0 [0; 1]	26 [9; 43]	6 [0; 33]	32 [9; 74]
Georgia (Caucasus and central Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 2]	0 [0; 0]	0 [0; 3]
Vietnam (southeastern Asia)	25 [0; 75]	1 [0; 12]	4 [0; 19]	246 [0; 751]	93 [0; 869]	339 [0; 1,550]
China (eastern Asia)	236 [0; 646]	7 [0; 66]	35 [0; 132]	2,357 [0; 6,457]	474 [0; 4,598]	2,831 [0; 10,554]
Hong Kong, SAR of China (eastern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Republic of Korea (eastern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Taiwan, Province of China (eastern Asia)	0 [0; 1]	0 [0; 0]	0 [0; 0]	3 [0; 14]	0 [0; 5]	4 [0; 19]
Afghanistan* (southern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Bangladesh* (southern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Nepal* (southern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Pakistan* (southern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Egypt* (northern Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Morocco* (northern Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Gambia* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Mali* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Mauritania* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Nigeria* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Senegal* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]

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Table 5 – continued from previous page

Country (Region)	Scenario S1					
	AMFB (in ,000)			CMFB (in ,000)		
	2021–2030	2031–2100	2021–2100	2021–2030	2031–2100	2021–2100
Tanzania* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Uganda* (sub-Saharan Africa)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Jordan* (western Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Turkey* (western Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Tajikistan* (Caucasus and central Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Singapore* (southeastern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]

Table 6: **Scenario S2: Average AMFB for periods 2021–2030, 2031–2100, 2021–2100 and CMFB for periods 2021–2030, 2031–2100, 2021–2100, by country.** AMFB: Annual Number of Missing Female Births. CMFB: Cumulative Number of Missing Female Births. *: countries at risk of future SRB inflation. Countries without * are those with past/ongoing SRB inflation. Countries are presented by region. Median estimates are the numbers before the brackets. Numbers in brackets are 95% uncertainty intervals. Region "ENAN" refers to the combination of countries in Europe, North America, Australia, and New Zealand.

Country (Region)	**Scenario S2**					
	AMFB (in ,000)			**CMFB (in ,000)**		
	2021–2030	**2031–2100**	**2021–2100**	**2021–2030**	**2031–2100**	**2021–2100**
India (southern Asia)	209 [0; 523]	6 [0; 47]	31 [0; 101]	2,092 [0; 5,228]	411 [0; 3,295]	2,503 [0; 8,049]
Albania (ENAN)	0 [0; 0]	0 [0; 0]	0 [0; 0]	1 [0; 2]	0 [0; 1]	1 [0; 3]
Montenegro (ENAN)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 1]	0 [0; 0]	0 [0; 1]
Tunisia (northern Africa)	0 [0; 1]	0 [0; 0]	0 [0; 0]	3 [0; 13]	0 [0; 5]	3 [0; 18]
Armenia (Caucasus and central Asia)	0 [0; 1]	0 [0; 0]	0 [0; 0]	2 [0; 6]	0 [0; 2]	2 [0; 8]
Azerbaijan (Caucasus and central Asia)	3 [1; 4]	0 [0; 0]	0 [0; 1]	26 [9; 43]	6 [0; 33]	32 [9; 74]
Georgia (Caucasus and central Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 2]	0 [0; 0]	0 [0; 3]
Vietnam (southeastern Asia)	25 [0; 75]	1 [0; 12]	4 [0; 19]	246 [0; 751]	93 [0; 869]	339 [0; 1,550]
China (eastern Asia)	236 [0; 646]	7 [0; 66]	35 [0; 132]	2,357 [0; 6,457]	474 [0; 4,598]	2,831 [0; 10,554]
Hong Kong, SAR of China (eastern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Republic of Korea (eastern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 0]
Taiwan, Province of China (eastern Asia)	0 [0; 1]	0 [0; 0]	0 [0; 0]	3 [0; 14]	0 [0; 5]	4 [0; 19]
Afghanistan* (southern Asia)	0 [0; 40]	9 [0; 25]	8 [0; 23]	0 [0; 398]	608 [22; 1,782]	608 [30; 1,868]
Bangladesh* (southern Asia)	70 [2; 150]	8 [0; 36]	16 [1; 48]	698 [18; 1,504]	553 [0; 2,544]	1,251 [89; 3,809]
Nepal* (southern Asia)	10 [0; 27]	1 [0; 5]	2 [0; 7]	104 [0; 273]	66 [0; 382]	170 [4; 593]
Pakistan* (southern Asia)	0 [0; 166]	42 [0; 135]	37 [0; 122]	0 [0; 1,660]	2,940 [0; 9,474]	2,940 [1; 9,770]
Egypt* (northern Africa)	0 [0; 74]	21 [0; 68]	19 [1; 61]	0 [0; 735]	1,491 [31; 4,744]	1,491 [41; 4,846]
Morocco* (northern Africa)	6 [0; 30]	3 [0; 11]	4 [0; 12]	62 [0; 296]	218 [0; 800]	280 [0; 924]
Gambia* (sub-Saharan Africa)	0 [0; 0]	1 [0; 3]	1 [0; 2]	0 [0; 5]	56 [0; 195]	56 [0; 196]
Mali* (sub-Saharan Africa)	0 [0; 1]	7 [0; 28]	6 [0; 24]	0 [0; 15]	502 [0; 1,955]	502 [0; 1,958]
Mauritania* (sub-Saharan Africa)	0 [0; 0]	1 [0; 6]	1 [0; 5]	0 [0; 2]	95 [0; 387]	95 [0; 388]
Nigeria* (sub-Saharan Africa)	0 [0; 7]	60 [0; 246]	53 [0; 215]	0 [0; 66]	4,218 [0; 17,204]	4,218 [0; 17,204]
Senegal* (sub-Saharan Africa)	0 [0; 0]	5 [0; 20]	5 [0; 18]	0 [0; 5]	368 [0; 1,417]	368 [0; 1,420]

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Table 6 – continued from previous page

Country (Region)	Scenario S2					
	AMFB (in ,000)			CMFB (in ,000)		
	2021–2030	2031–2100	2021–2100	2021–2030	2031–2100	2021–2100
Tanzania* (sub-Saharan Africa)	0 [0; 1]	21 [0; 91]	19 [0; 79]	0 [0; 11]	1,482 [0; 6,357]	1,482 [0; 6,357]
Uganda* (sub-Saharan Africa)	0 [0; 30]	14 [0; 46]	13 [0; 41]	0 [0; 302]	1,003 [16; 3,221]	1,003 [17; 3,264]
Jordan* (western Asia)	1 [0; 8]	1 [0; 4]	1 [0; 4]	13 [0; 80]	80 [0; 273]	92 [3; 306]
Turkey* (western Asia)	2 [0; 15]	0 [0; 7]	1 [0; 8]	24 [0; 151]	21 [0; 512]	45 [0; 632]
Tajikistan* (Caucasus and central Asia)	0 [0; 6]	2 [0; 8]	2 [0; 7]	0 [0; 60]	171 [2; 557]	171 [2; 559]
Singapore* (southeastern Asia)	0 [0; 0]	0 [0; 0]	0 [0; 0]	0 [0; 1]	0 [0; 0]	0 [0; 1]

Table 7: **Period-specific CMFB to total CMFB (in percentage) for periods 2021–2030, 2031–2100, 2021–2100 for Scenario S1 and S2, by country.** CMFB: Cumulative Number of Missing Female Births. *: countries at risk of future SRB inflation. Countries without * are those with past/ongoing SRB inflation. Countries are presented by region. Median estimates are the numbers before the brackets. Numbers in brackets are 95% uncertainty intervals. Percentages may not sum up to 100%, due to rounding. Region "ENAN" refers to the combination of countries in Europe, North America, Australia, and New Zealand.

Country (Region)	**Percentage to total CMFB (in %)**					
	Scenario S1			**Scenario S2**		
	2021–2030	**2031–2100**	**2021–2100**	**2021–2030**	**2031–2100**	**2021–2100**
India (southern Asia)	44.2 [0.0; 92.2]	41.7 [0.0; 99.6]	43.8 [0.0; 93.1]	37.1 [0.0; 71.1]	2.8 [0.0; 19.0]	12.2 [0.0; 31.6]
Albania (ENAN)	0.0 [0.0; 0.1]	0.0 [0.0; 1.4]	0.0 [0.0; 0.1]	0.0 [0.0; 0.1]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]
Montenegro (ENAN)	0.0 [0.0; 0.0]	0.0 [0.0; 0.4]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]
Tunisia (northern Africa)	0.1 [0.0; 0.5]	0.0 [0.0; 2.4]	0.1 [0.0; 0.6]	0.1 [0.0; 0.3]	0.0 [0.0; 0.0]	0.0 [0.0; 0.1]
Armenia (Caucasus and central Asia)	0.1 [0.0; 0.3]	0.0 [0.0; 0.8]	0.0 [0.0; 0.3]	0.0 [0.0; 0.2]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]
Azerbaijan (Caucasus and central Asia)	0.6 [0.2; 2.5]	0.6 [0.0; 88.6]	0.6 [0.1; 3.2]	0.5 [0.1; 1.3]	0.0 [0.0; 0.2]	0.2 [0.0; 0.4]
Georgia (Caucasus and central Asia)	0.0 [0.0; 0.1]	0.0 [0.0; 0.1]	0.0 [0.0; 0.1]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]
Vietnam (southeastern Asia)	5.2 [0.0; 27.9]	9.5 [0.0; 99.3]	5.9 [0.0; 39.6]	4.4 [0.0; 17.1]	0.6 [0.0; 5.4]	1.7 [0.0; 7.0]
China (eastern Asia)	49.8 [0.0; 90.3]	48.1 [0.0; 99.6]	49.5 [0.0; 91.2]	41.8 [0.0; 74.8]	3.2 [0.0; 24.7]	13.8 [0.0; 39.0]
Hong Kong, SAR of China (eastern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]
Republic of Korea (eastern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]
Taiwan, Province of China (eastern Asia)	0.1 [0.0; 0.5]	0.0 [0.0; 2.0]	0.1 [0.0; 0.5]	0.1 [0.0; 0.3]	0.0 [0.0; 0.0]	0.0 [0.0; 0.1]
Afghanistan* (southern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 7.2]	4.1 [0.1; 12.5]	3.0 [0.1; 9.0]
Bangladesh* (southern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	12.4 [0.3; 35.8]	3.7 [0.0; 16.4]	6.1 [0.4; 17.3]
Nepal* (southern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	1.9 [0.0; 6.6]	0.4 [0.0; 2.7]	0.8 [0.0; 3.0]
Pakistan* (southern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 25.5]	19.8 [0.0; 49.0]	14.3 [0.0; 38.1]
Egypt* (northern Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 12.9]	10.0 [0.2; 29.3]	7.3 [0.2; 21.8]
Morocco* (northern Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	1.1 [0.0; 6.6]	1.5 [0.0; 5.4]	1.4 [0.0; 4.3]
Gambia* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.1]	0.4 [0.0; 1.4]	0.3 [0.0; 1.0]
Mali* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.2]	3.4 [0.0; 13.5]	2.4 [0.0; 9.4]
Mauritania* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.6 [0.0; 2.9]	0.5 [0.0; 2.0]
Nigeria* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 1.1]	28.4 [0.0; 63.5]	20.6 [0.0; 52.4]
Senegal* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.1]	2.5 [0.0; 9.6]	1.8 [0.0; 6.8]

Continued on next page

Table 7 – continued from previous page

Country (Region)	Percentage to total CMFB (in %)					
	Scenario S1			Scenario S2		
	2021–2030	2031–2100	2021–2100	2021–2030	2031–2100	2021–2100
Tanzania* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.2]	10.0 [0.0; 35.6]	7.2 [0.0; 26.0]
Uganda* (sub-Saharan Africa)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 5.5]	6.8 [0.1; 21.0]	4.9 [0.1; 15.0]
Jordan* (western Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.2 [0.0; 1.7]	0.5 [0.0; 1.9]	0.5 [0.0; 1.5]
Turkey* (western Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.4 [0.0; 2.9]	0.1 [0.0; 2.9]	0.2 [0.0; 2.7]
Tajikistan* (Caucasus and central Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 1.0]	1.1 [0.0; 4.1]	0.8 [0.0; 2.8]
Singapore* (southeastern Asia)	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]	0.0 [0.0; 0.0]

4 Supplementary Figures

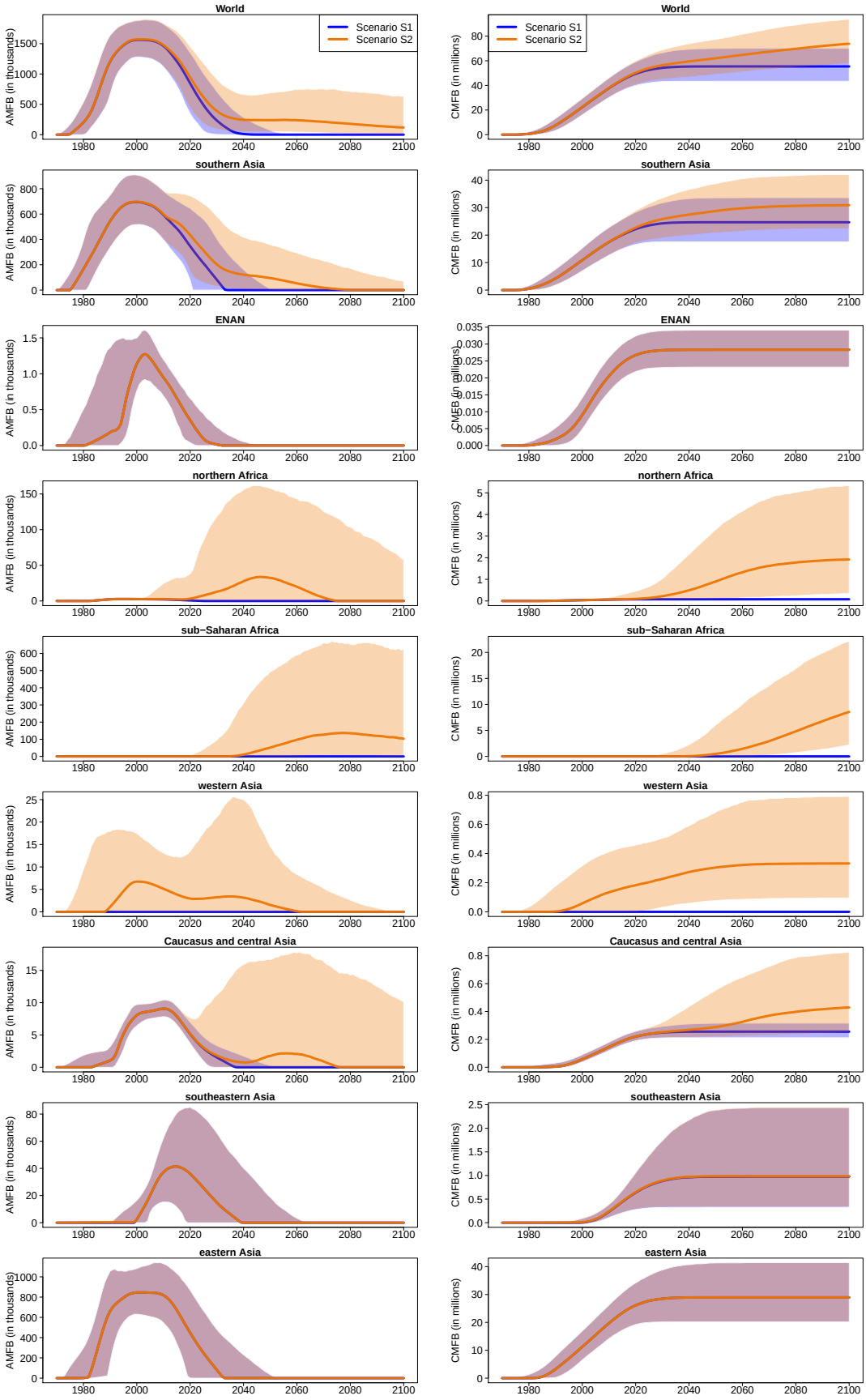
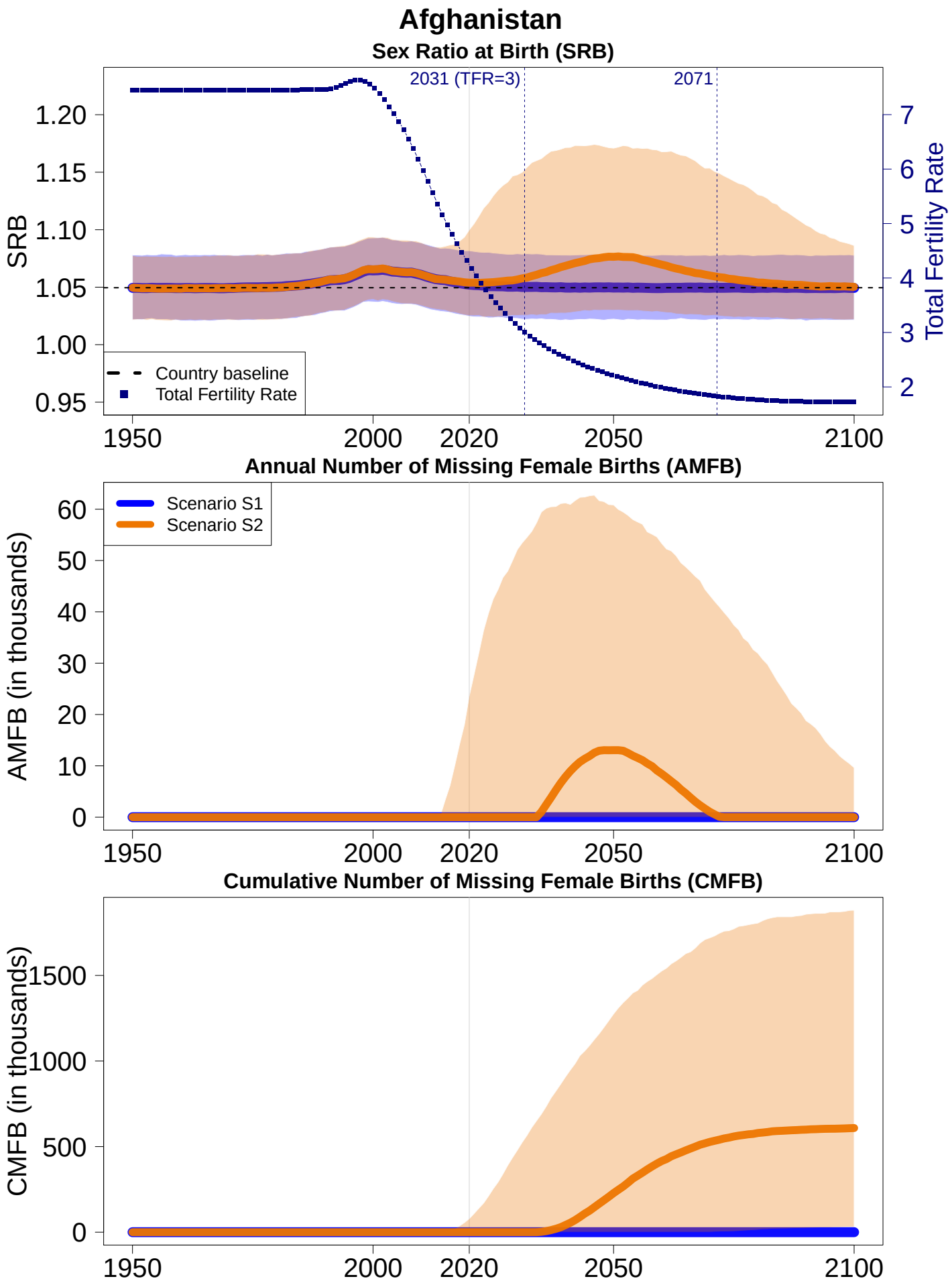
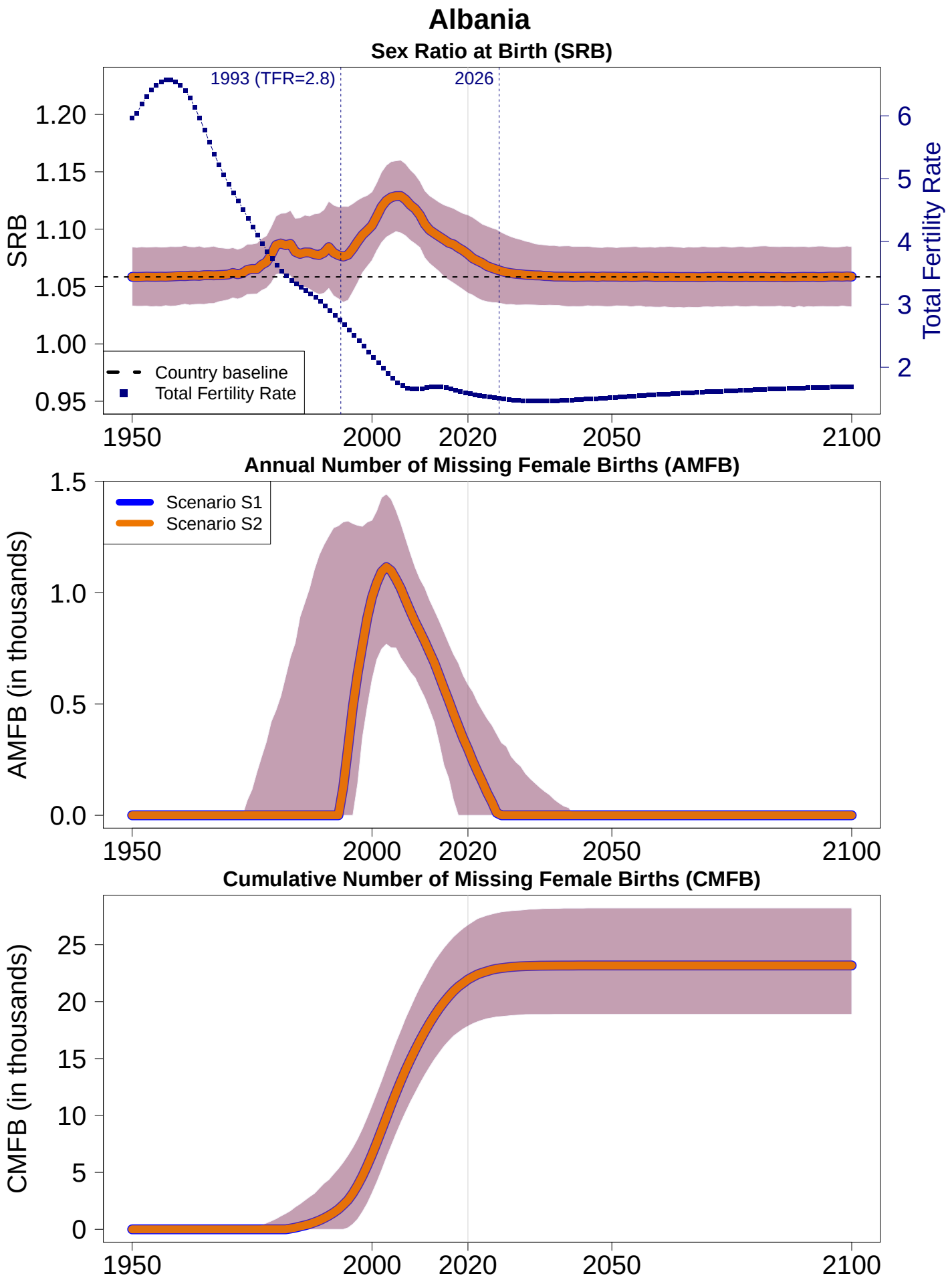
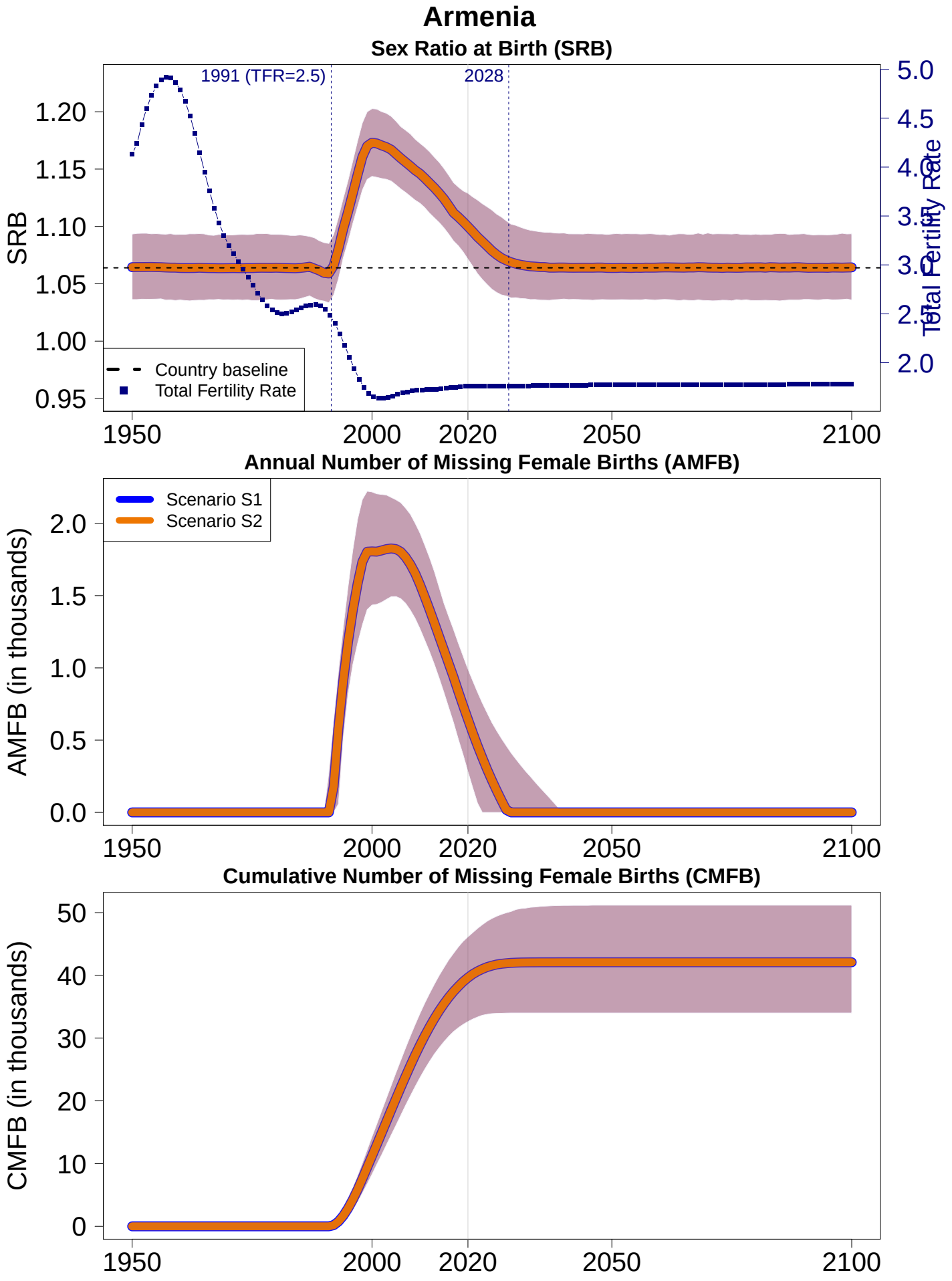


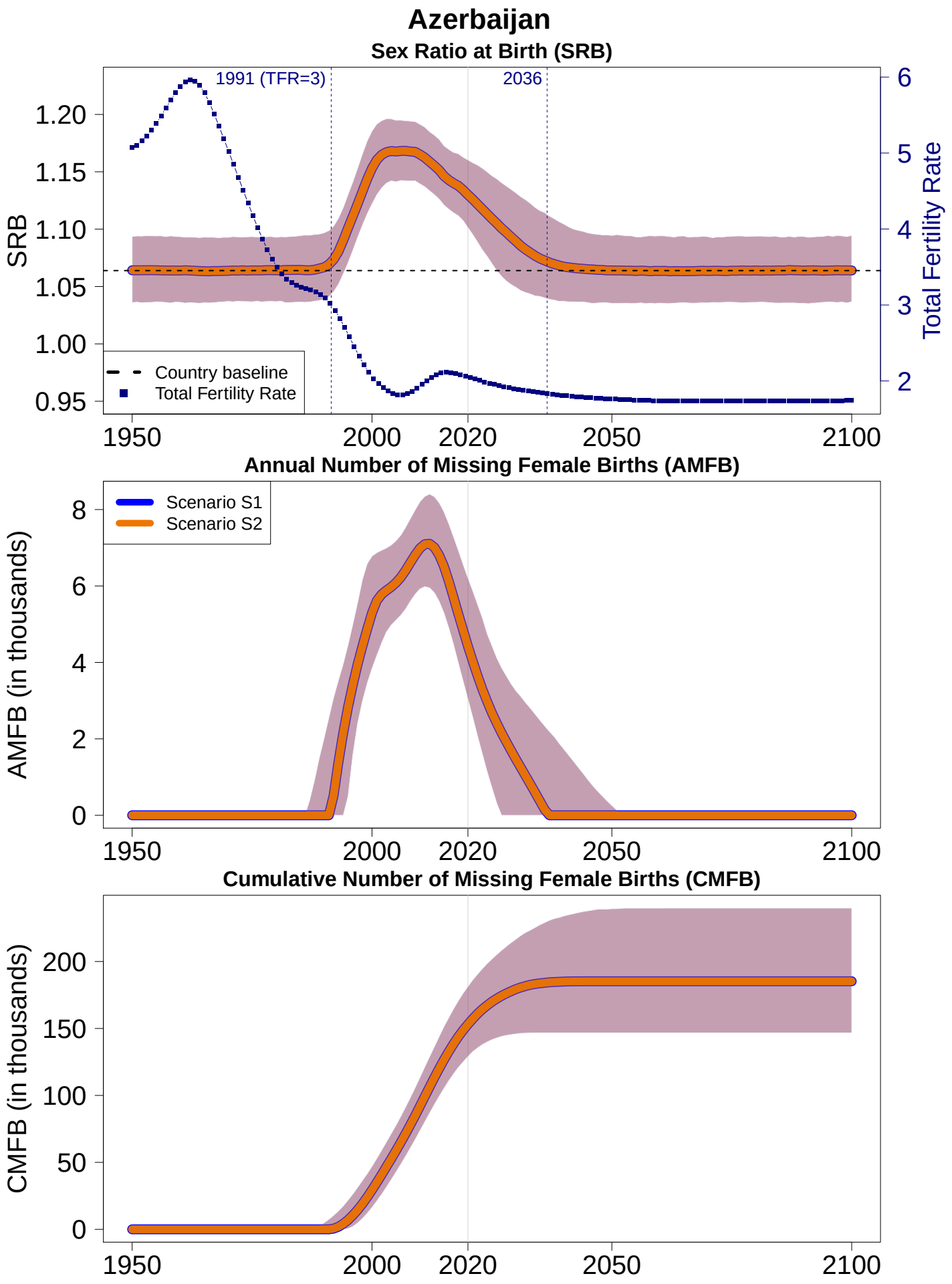
Figure 1: **AMFB (left) and CMFB (right) scenario-based projections during 1970–2100 for the world and region with projected SRB inflation.** The solid lines are medians and shaded areas represent 95% uncertainty intervals.

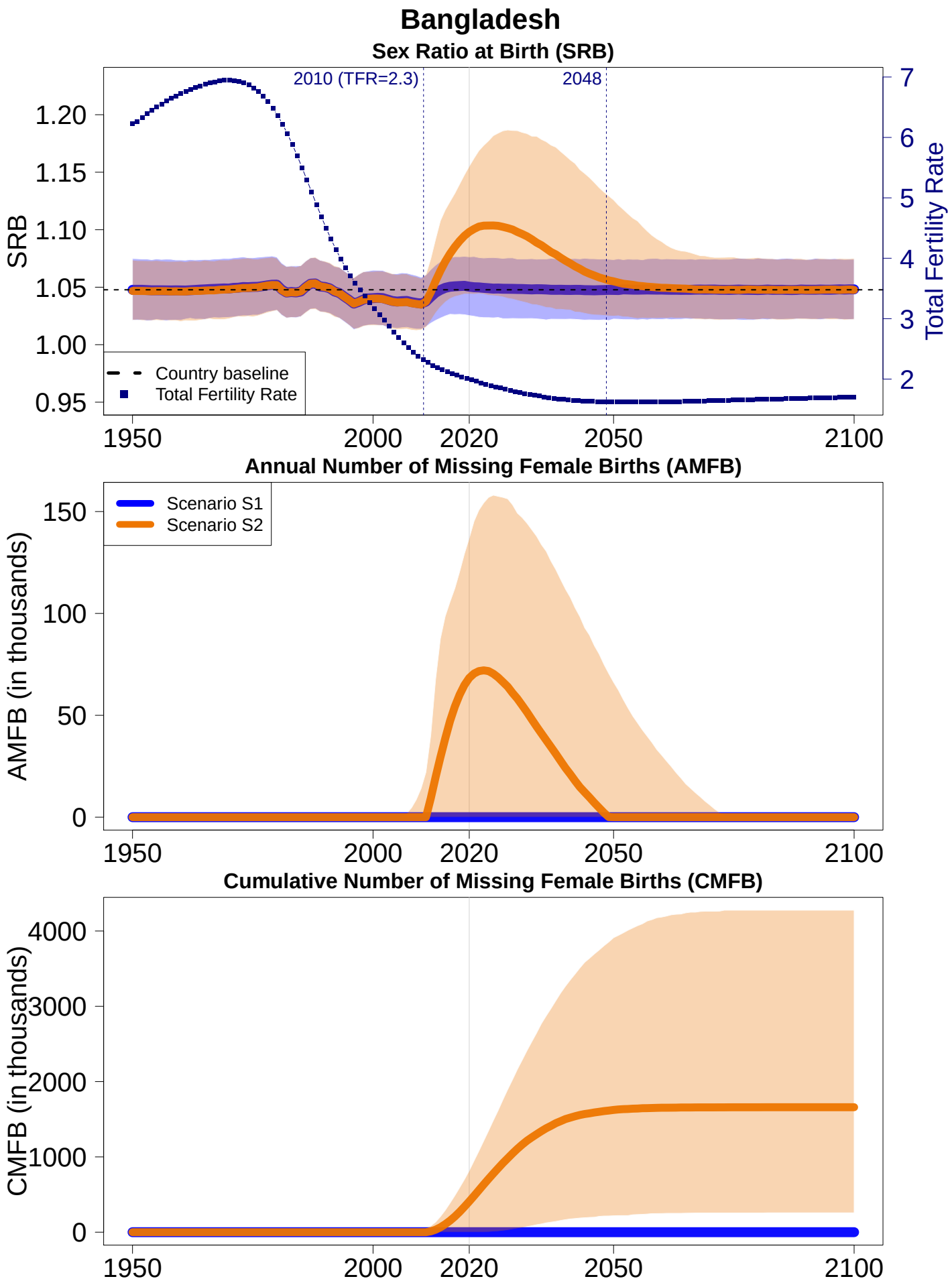
Figure 2: **Scenario-based projection results during 1950–2100, by country.** Top: sex ratio at birth (SRB) estimates and projections. Middle: annual number of missing female births (AMFB) estimates and projections. Bottom: cumulative number of missing female births (CMFB) estimates and projections. Blue curves and shades are median estimates/projections and 95% uncertainty intervals for Scenario S1. Orange curves and shades are median estimates/projections and 95% uncertainty intervals for Scenario S2. In SRB plots, black horizontal dashed lines are the country-specific baselines (median estimates). Blue squared dots are the median estimates and projections of total fertility rate (TFR) from the UN WPP 2019 [4]. Blue vertical dashed lines are the median estimates of start and end years of the sex ratio transition (if before 2100).

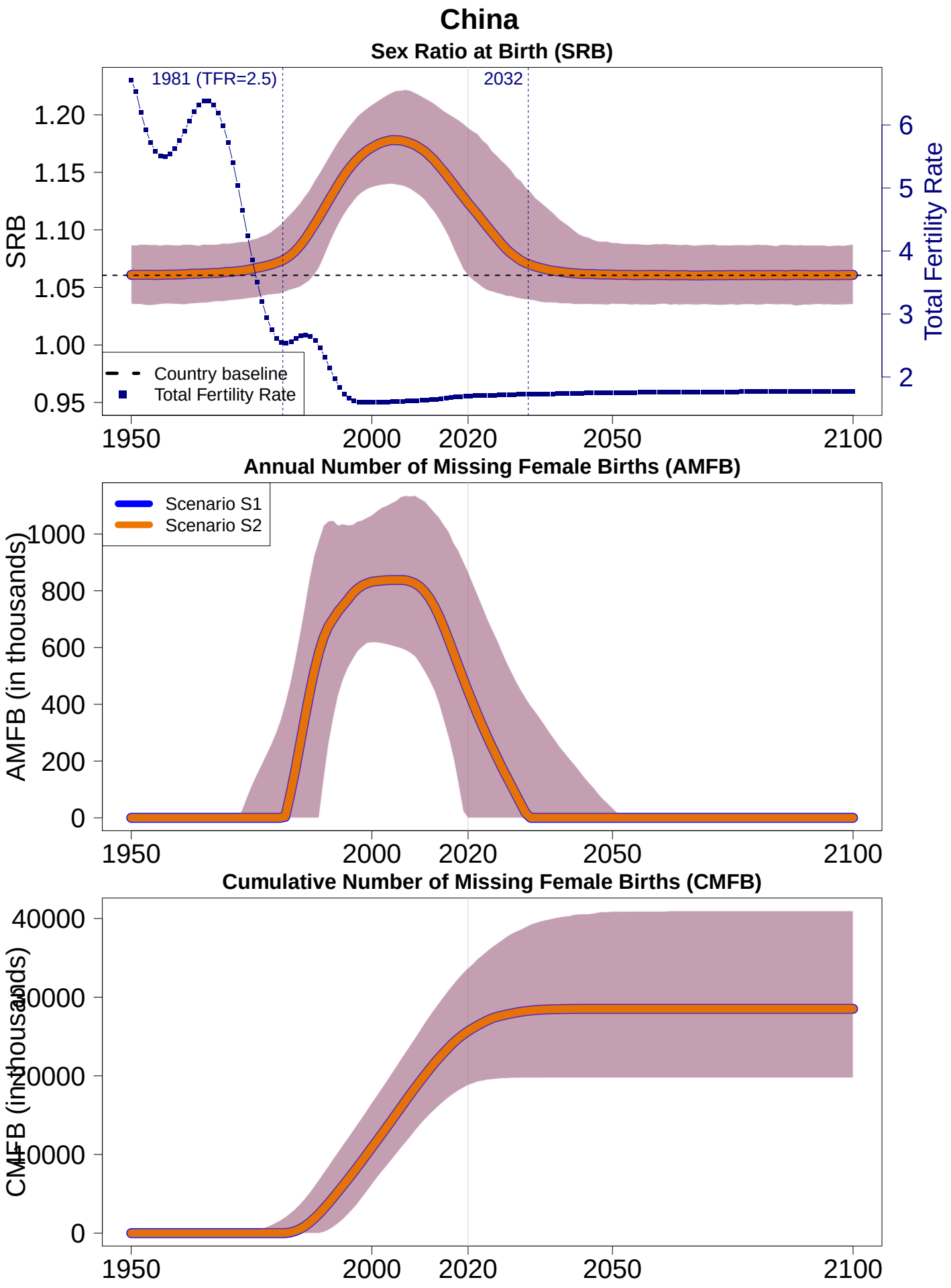

Afghanistan
Sex Ratio at Birth (SRB)
2031 (TFR=3)
2071
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

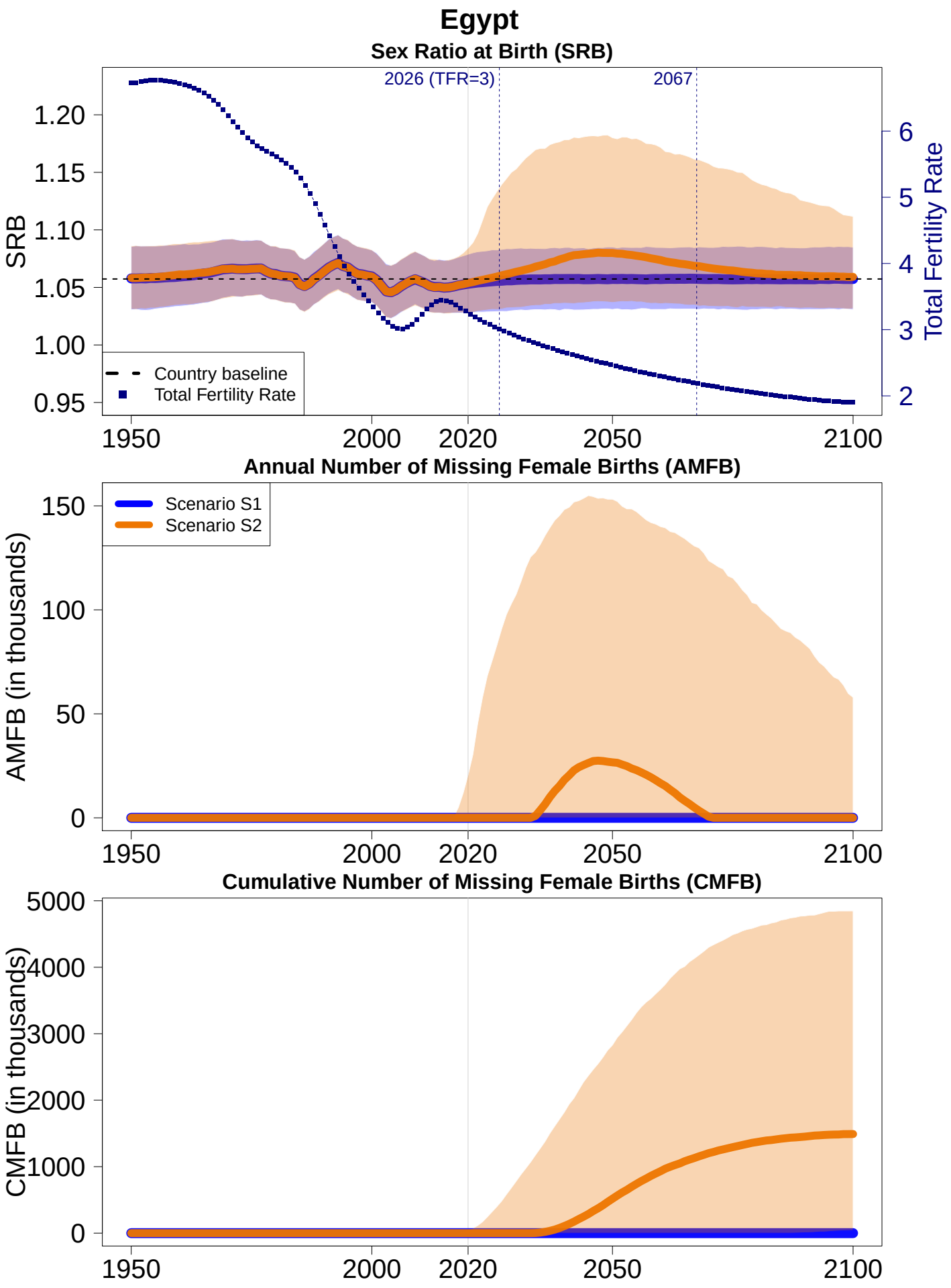

Albania
Sex Ratio at Birth (SRB)
1993 (TFR=2.8)
2026
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

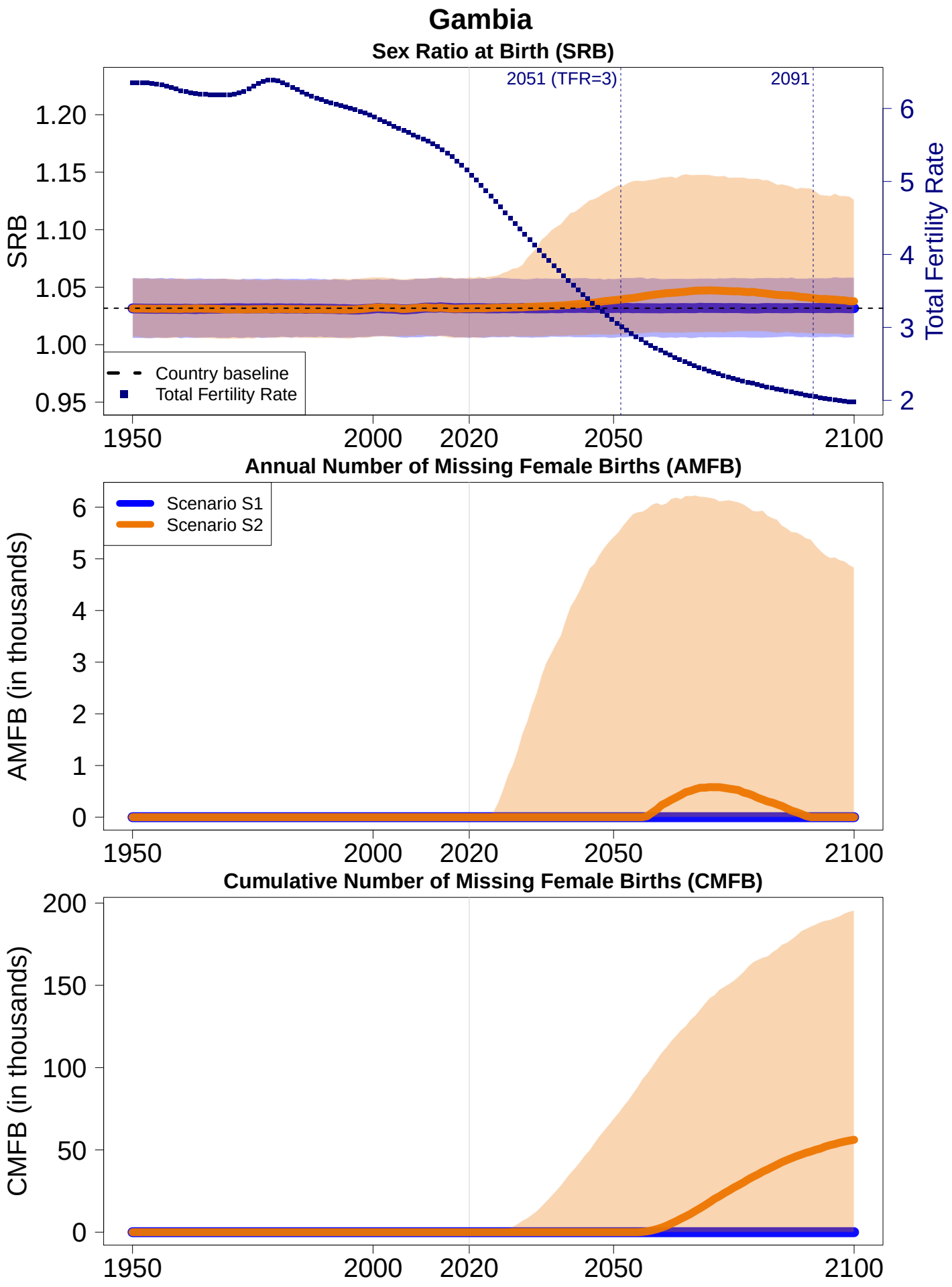

Armenia
Sex Ratio at Birth (SRB)
1991 (TFR=2.5)
2028
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

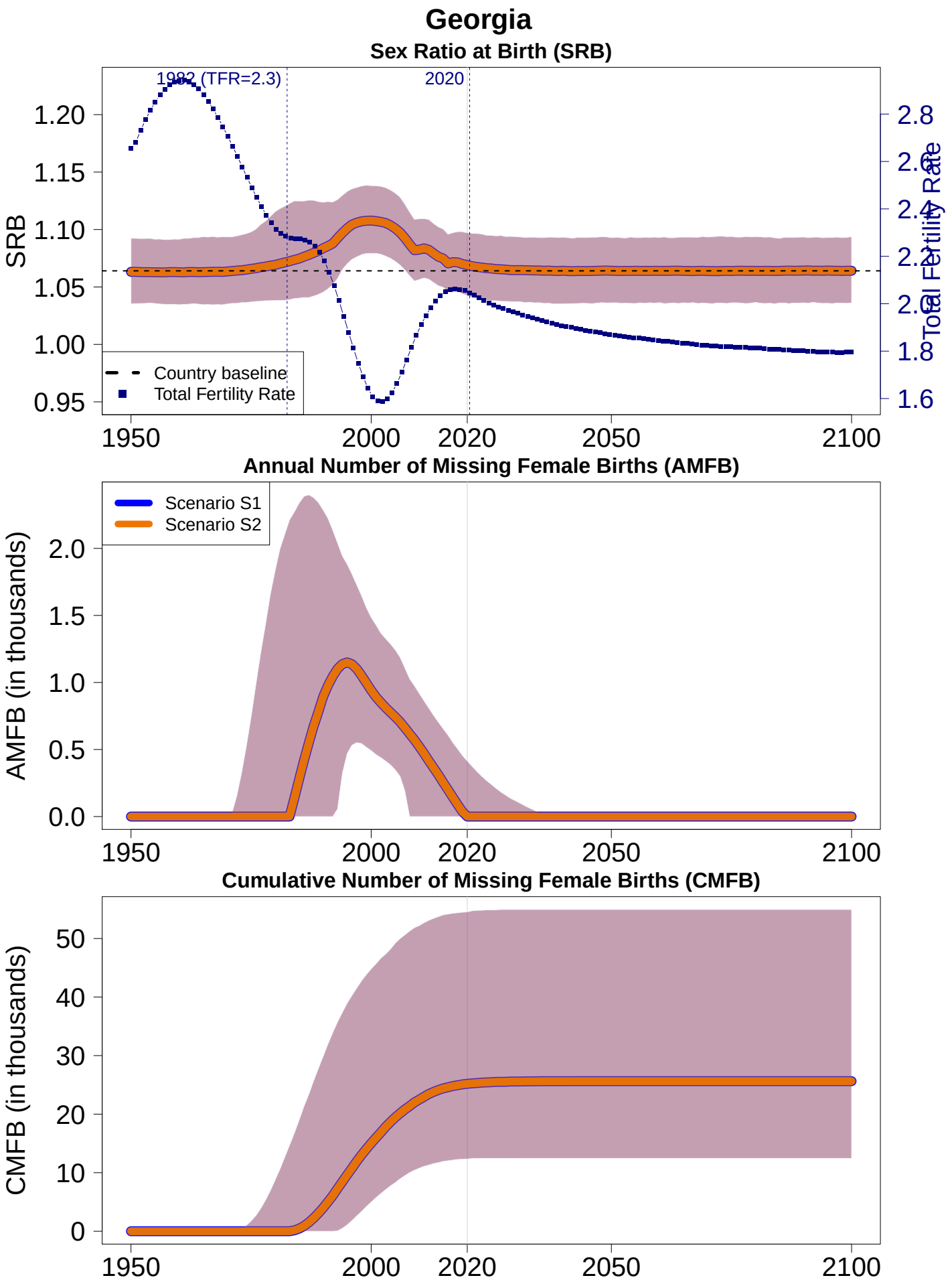

Azerbaijan
Sex Ratio at Birth (SRB)
1991 (TFR=3)
2036
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

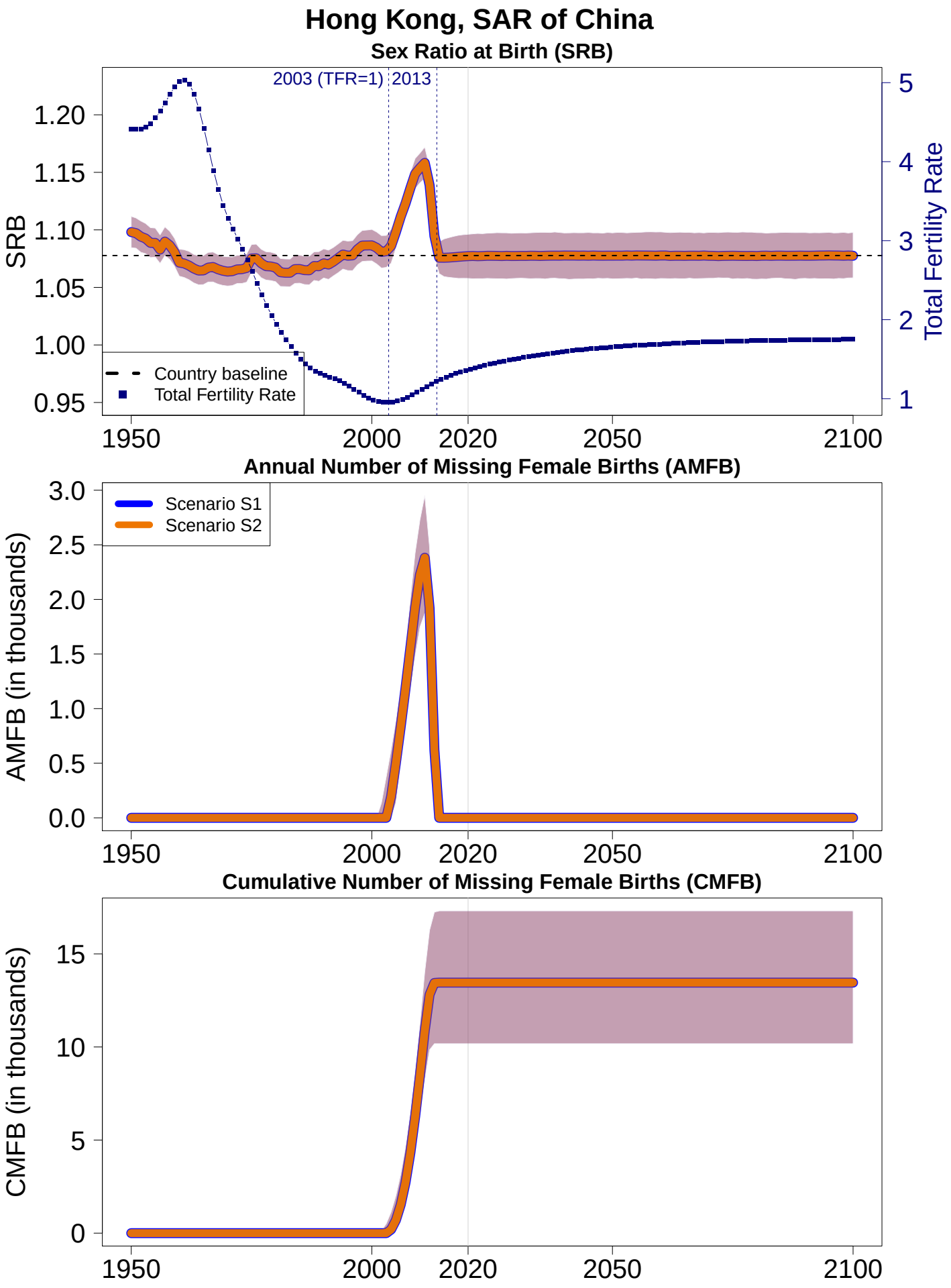

Bangladesh
Sex Ratio at Birth (SRB)
2010 (TFR=2.3)
2048
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

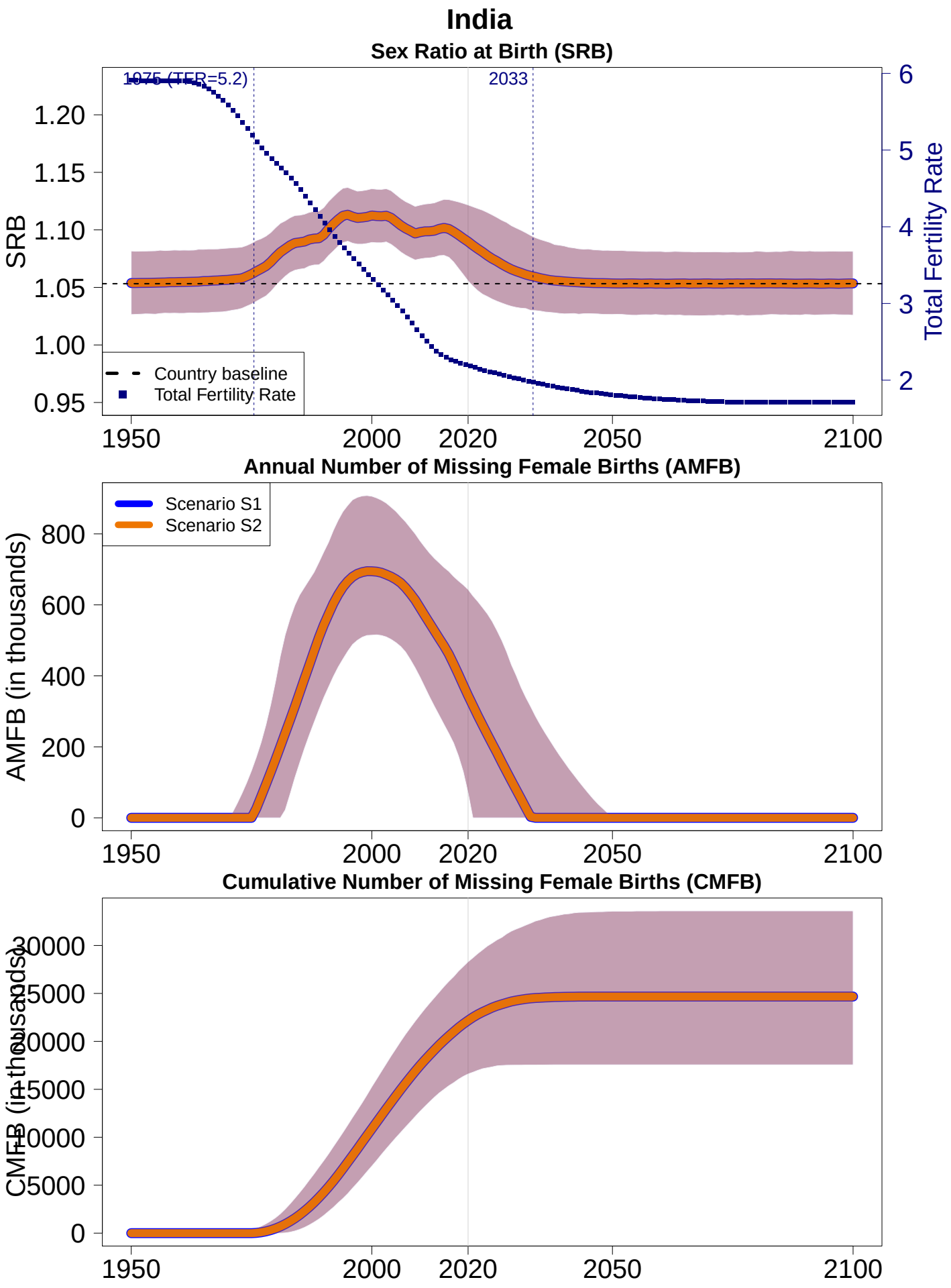

China
Sex Ratio at Birth (SRB)
1981 (TFR=2.5)
2032
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

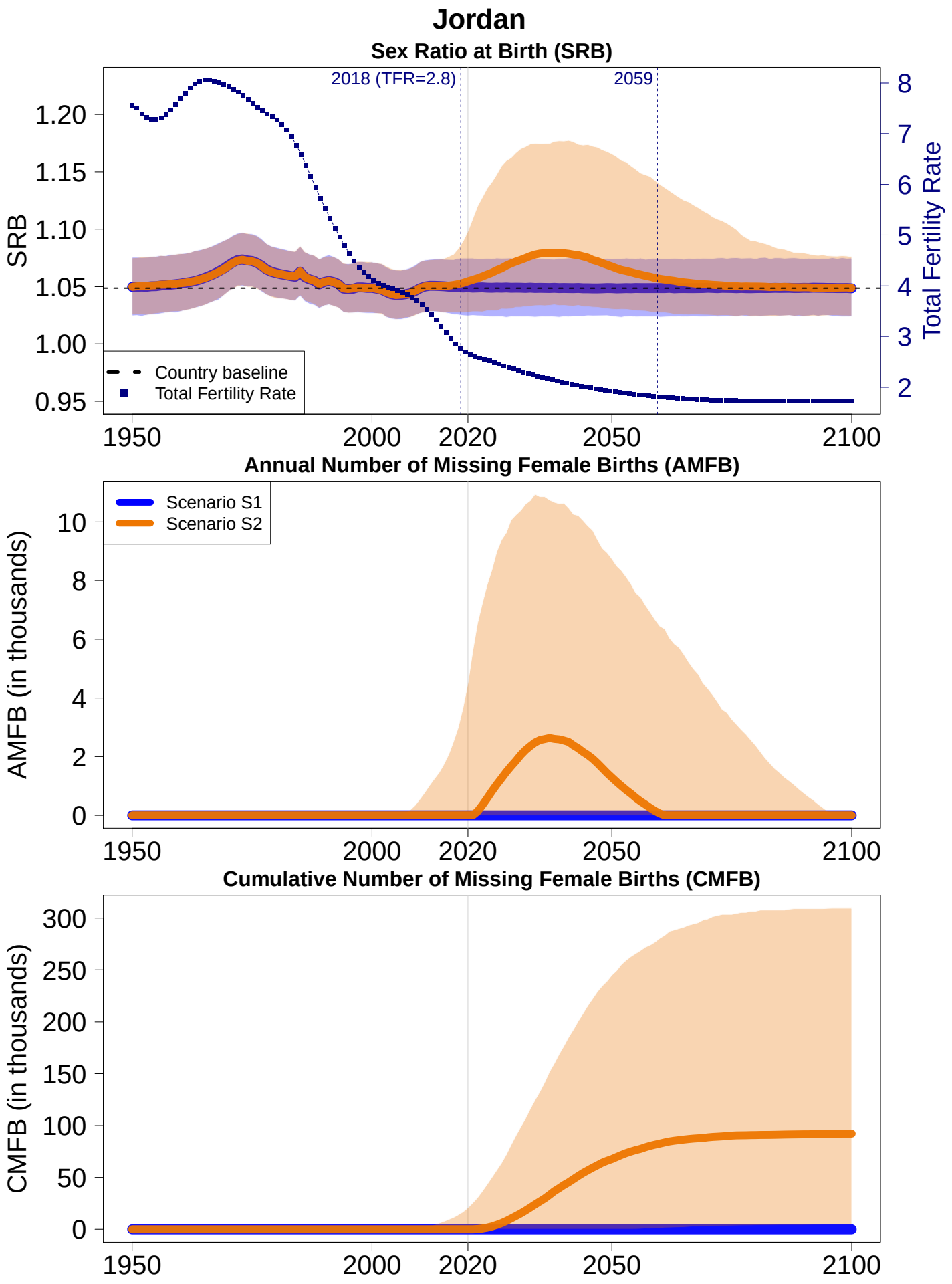

Egypt
Sex Ratio at Birth (SRB)
2026 (TFR=3)
2067
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100


Gambia
Sex Ratio at Birth (SRB)
2051 (TFR=3)
2091
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

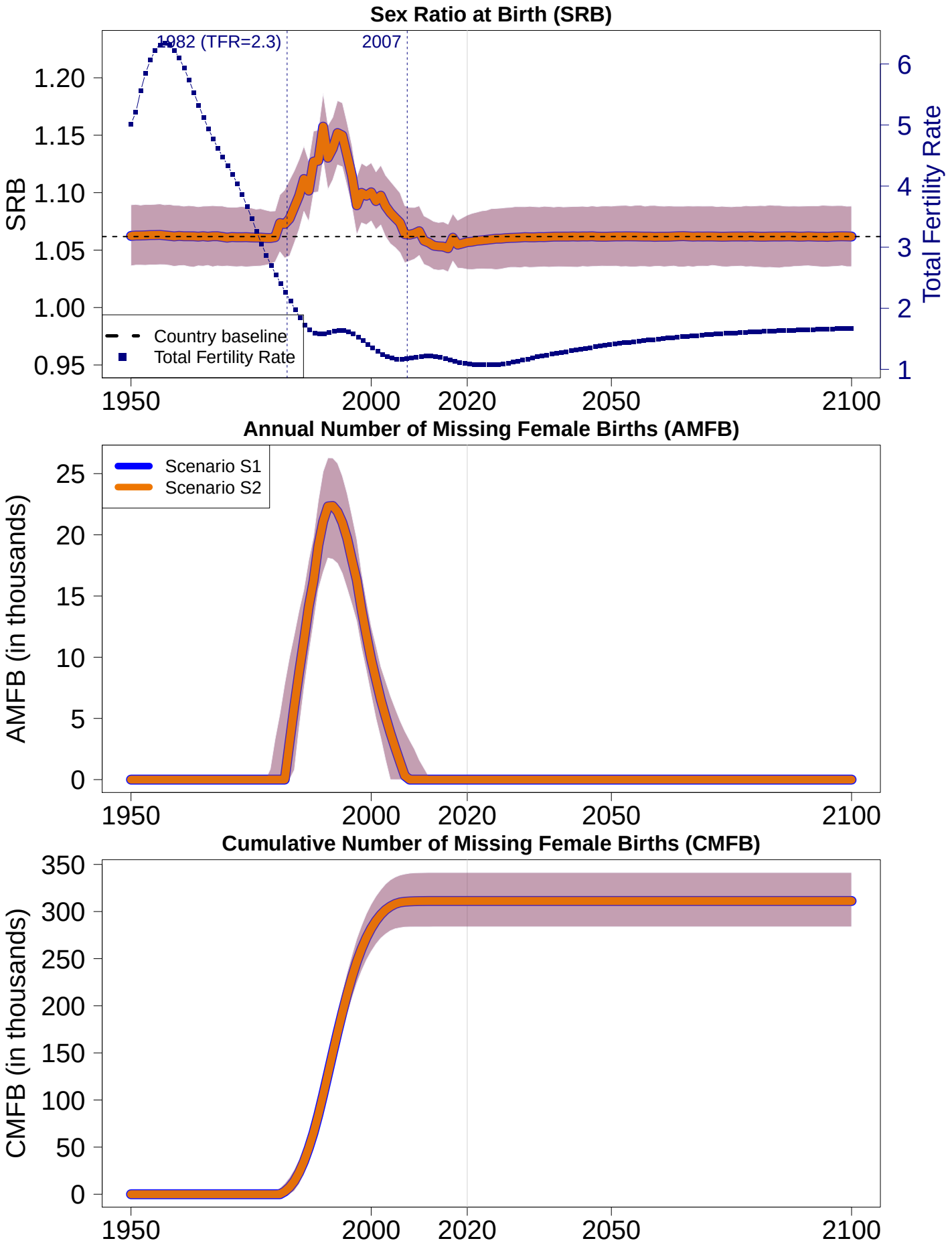

Georgia
Sex Ratio at Birth (SRB)
1982 (TFR=2.3)
2020
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
2.0
1.5
1.0
0.5
0.0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
50
40
30
20
10
0

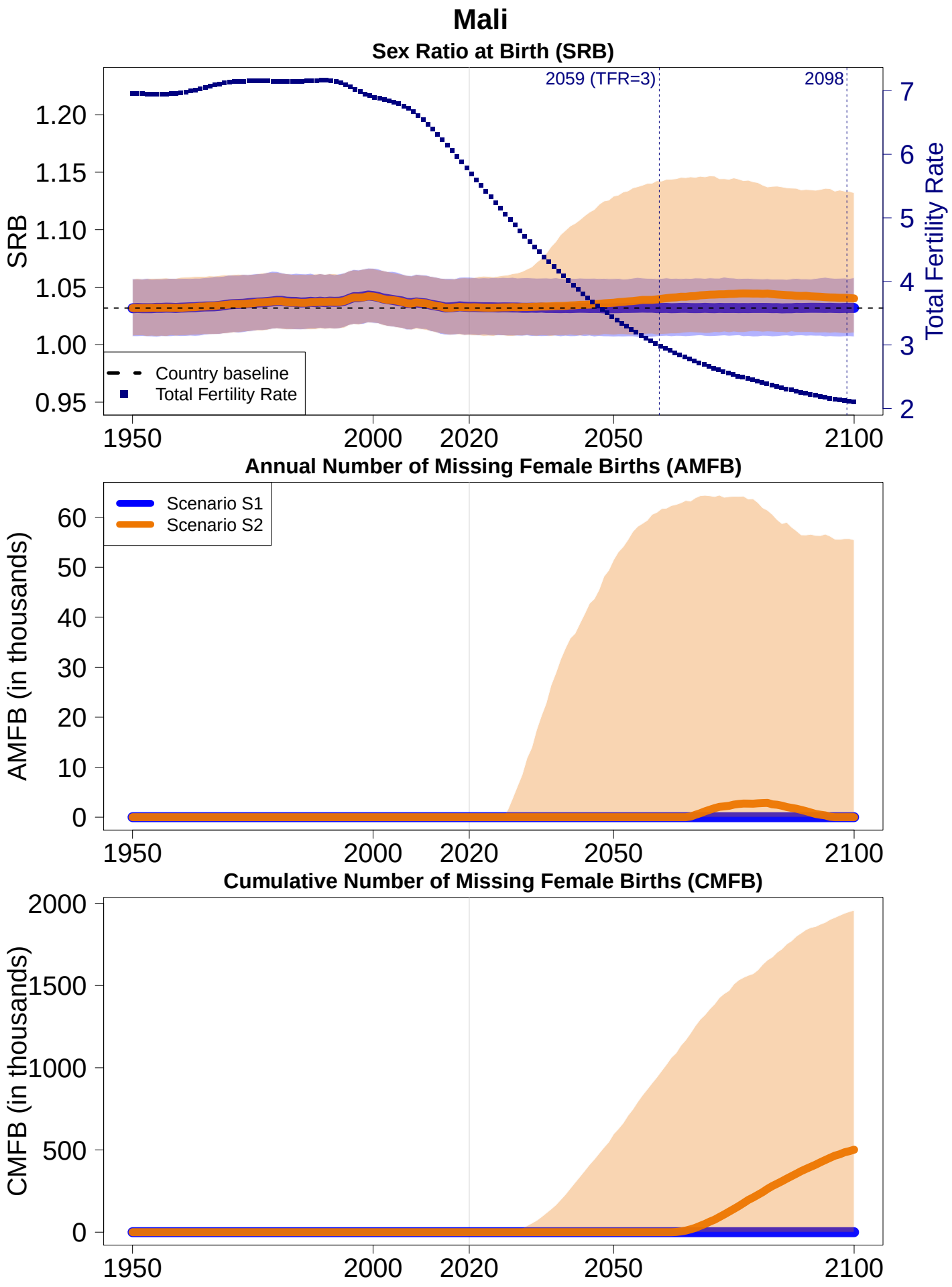

Hong Kong, SAR of China
Sex Ratio at Birth (SRB)
2003 (TFR=1)
2013
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

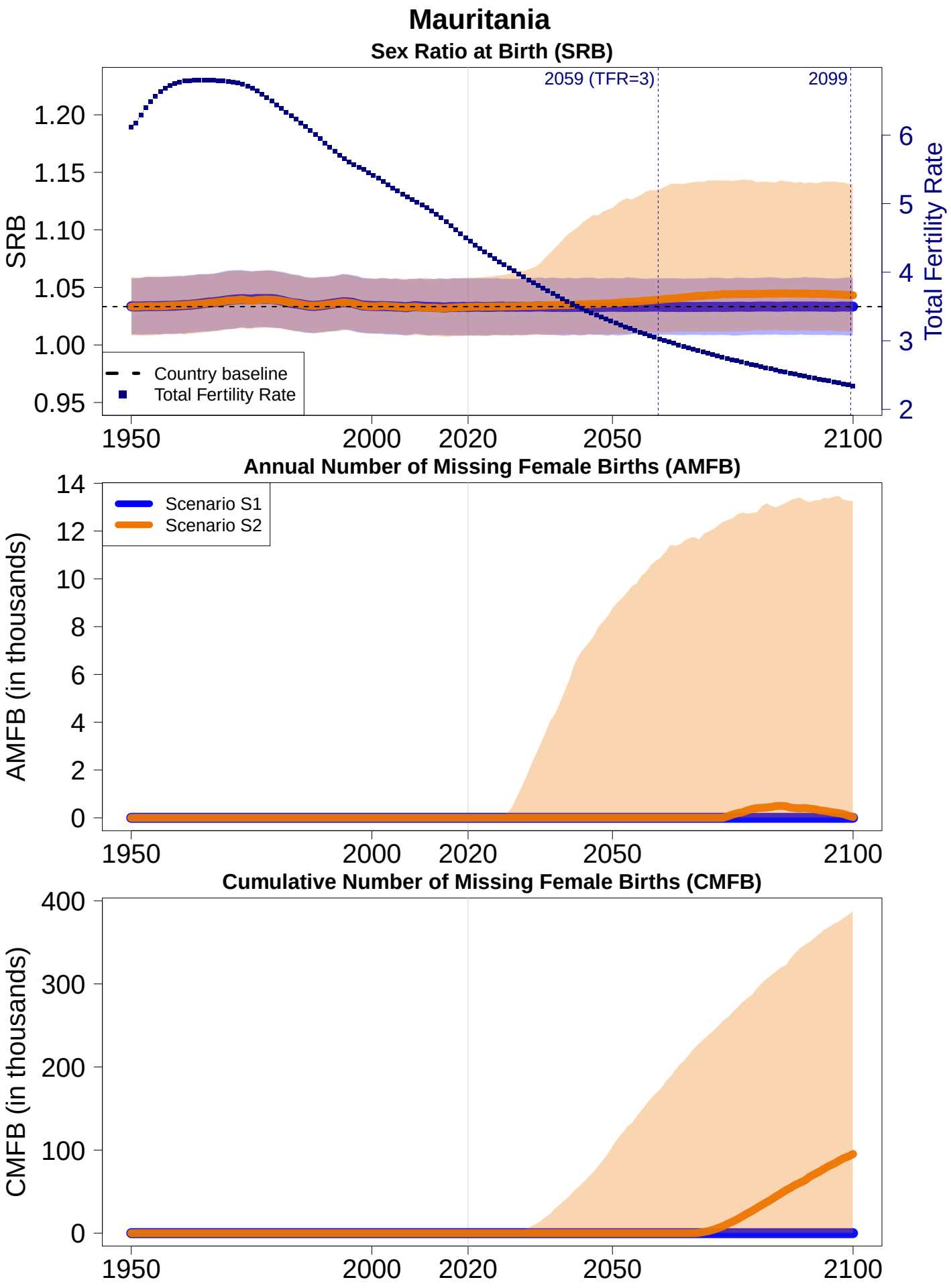

India
Sex Ratio at Birth (SRB)
1975 (TFR=5.2)
2033
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

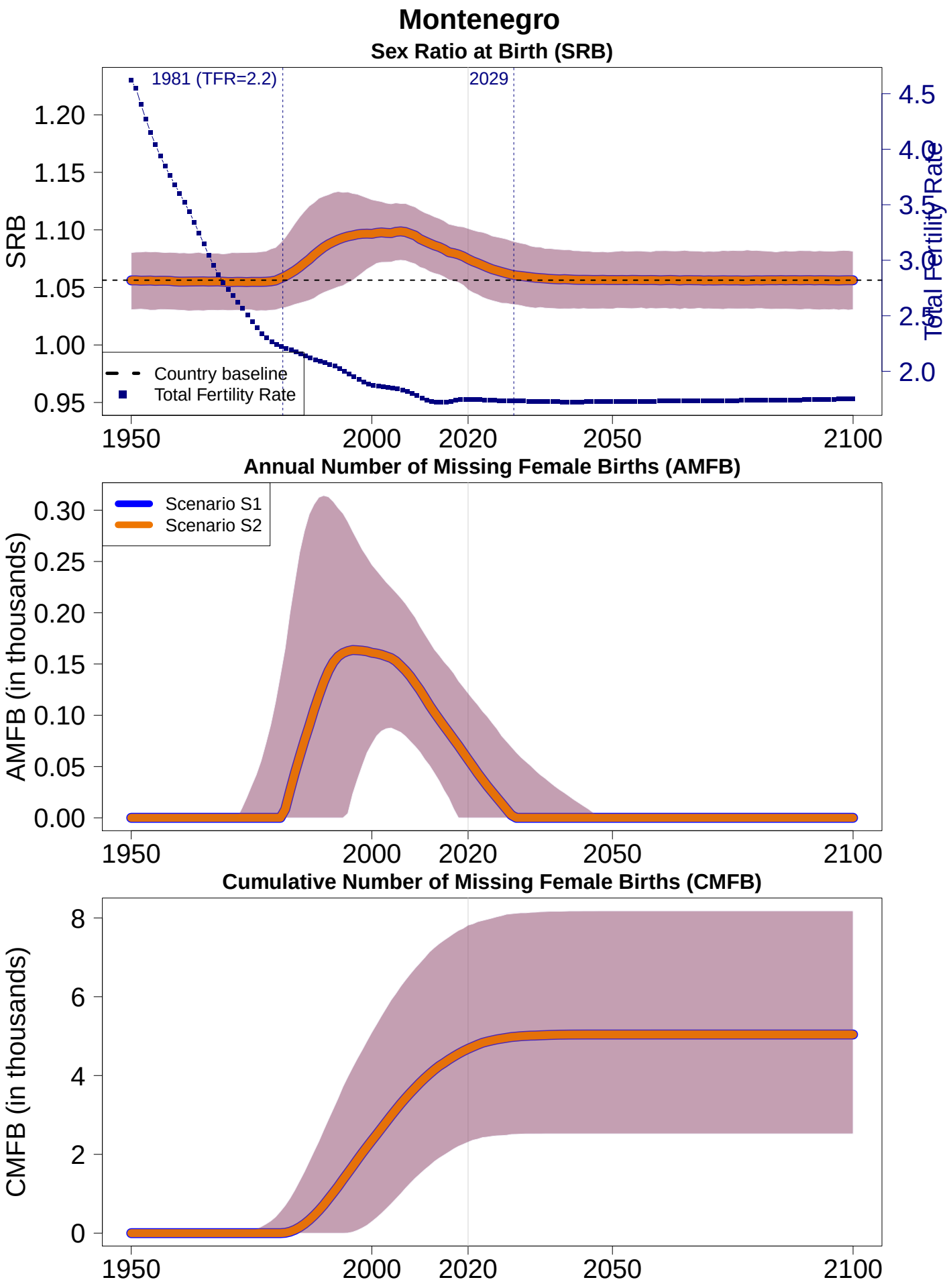

Jordan
Sex Ratio at Birth (SRB)
2018 (TFR=2.8)
2059
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

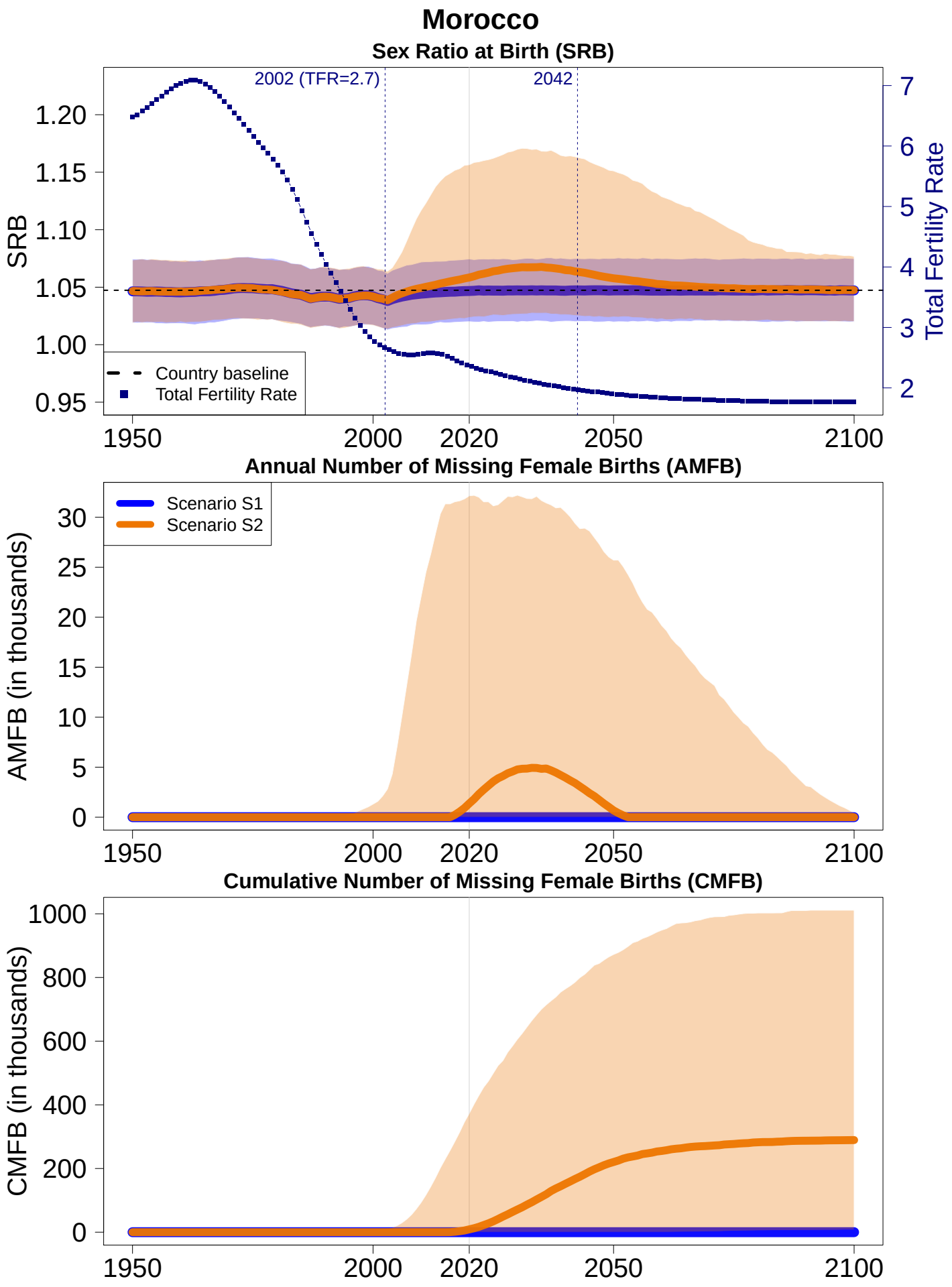
Republic of Korea

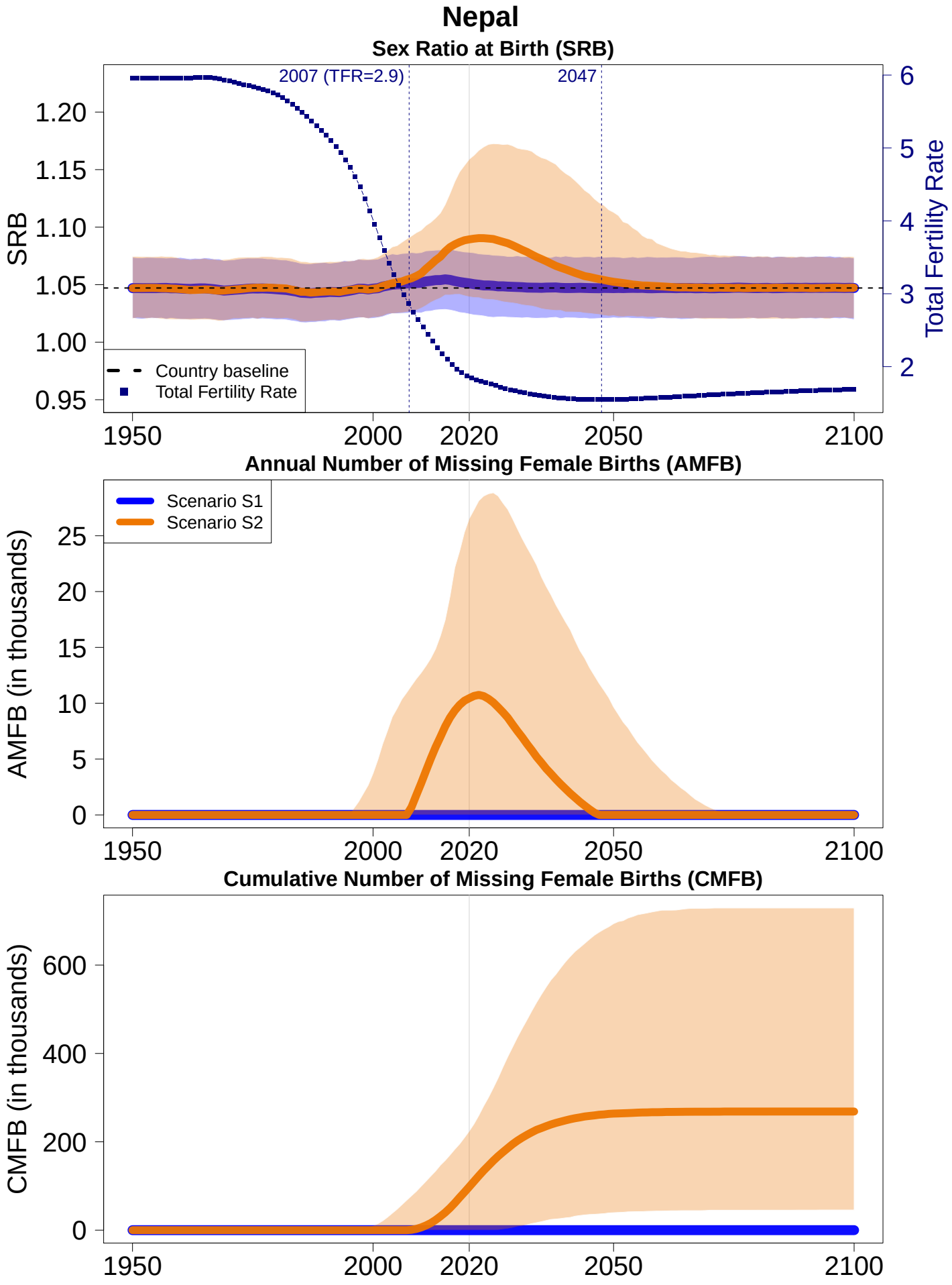


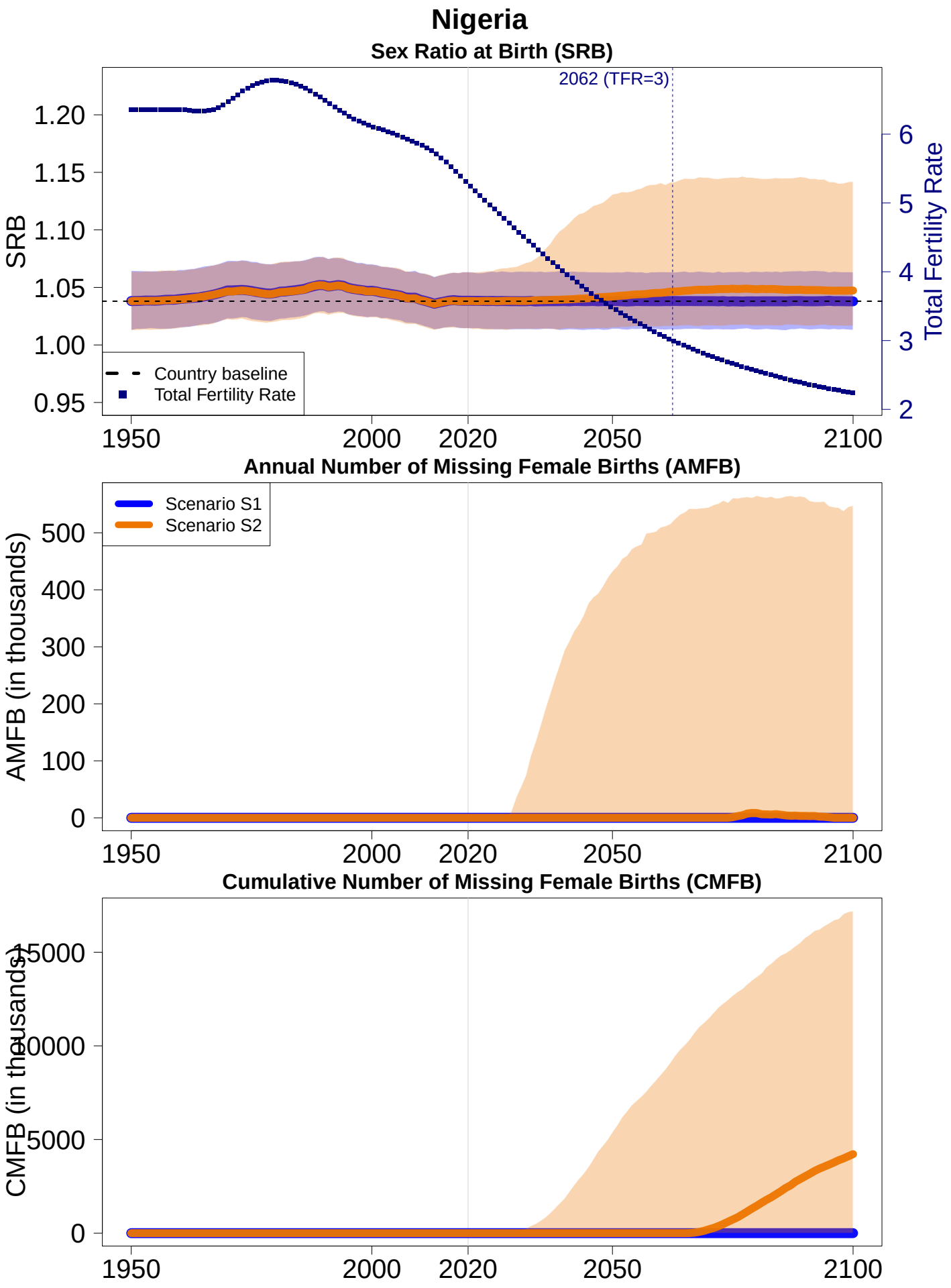

Mali
Sex Ratio at Birth (SRB)
2059 (TFR=3)
2098
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
7
6
5
4
3
2
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
60
50
40
30
20
10
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
2000
1500
1000
500
0

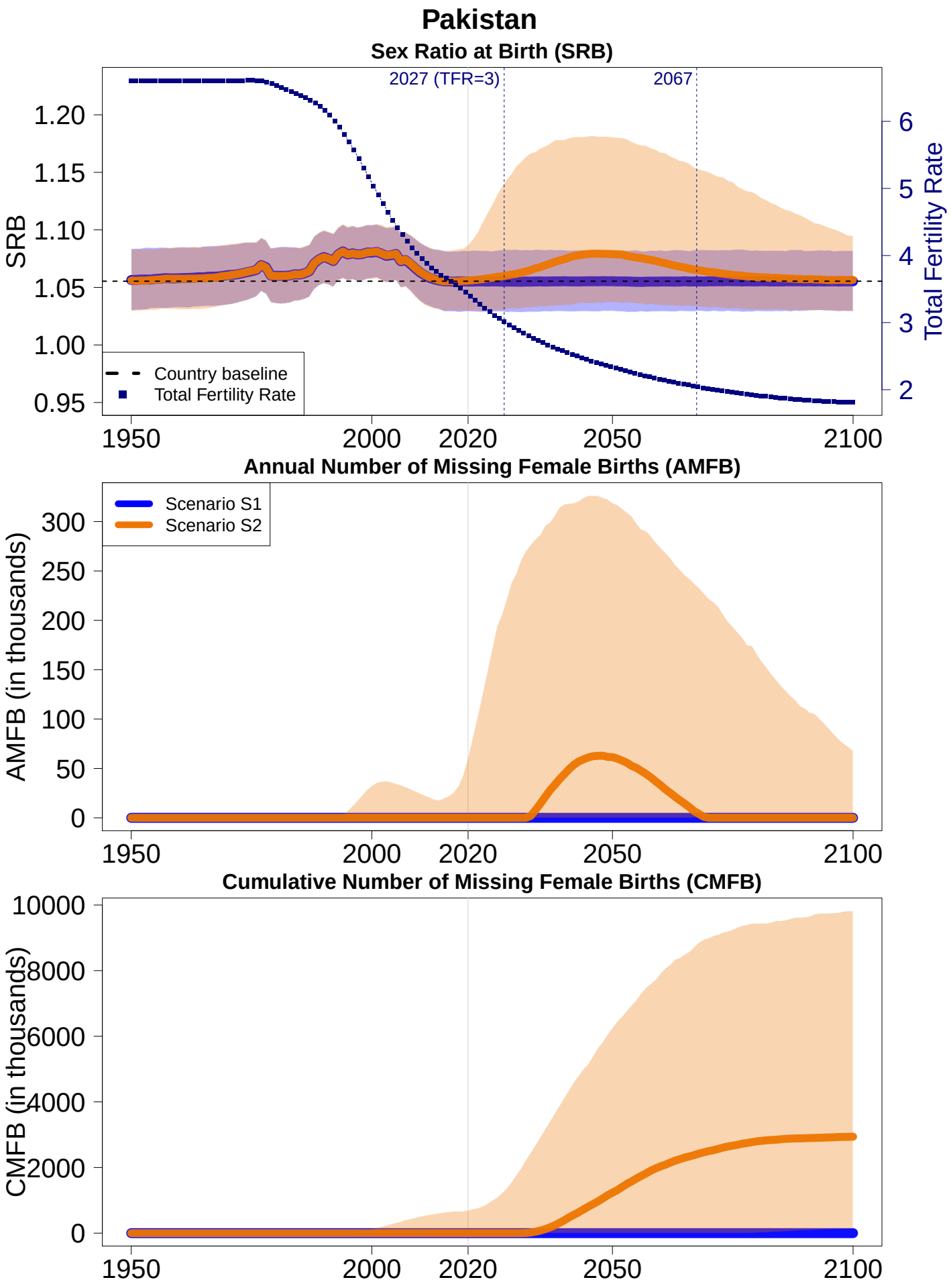

Mauritania
Sex Ratio at Birth (SRB)
2059 (TFR=3)
2099
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
14
12
10
8
6
4
2
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
400
300
200
100
0

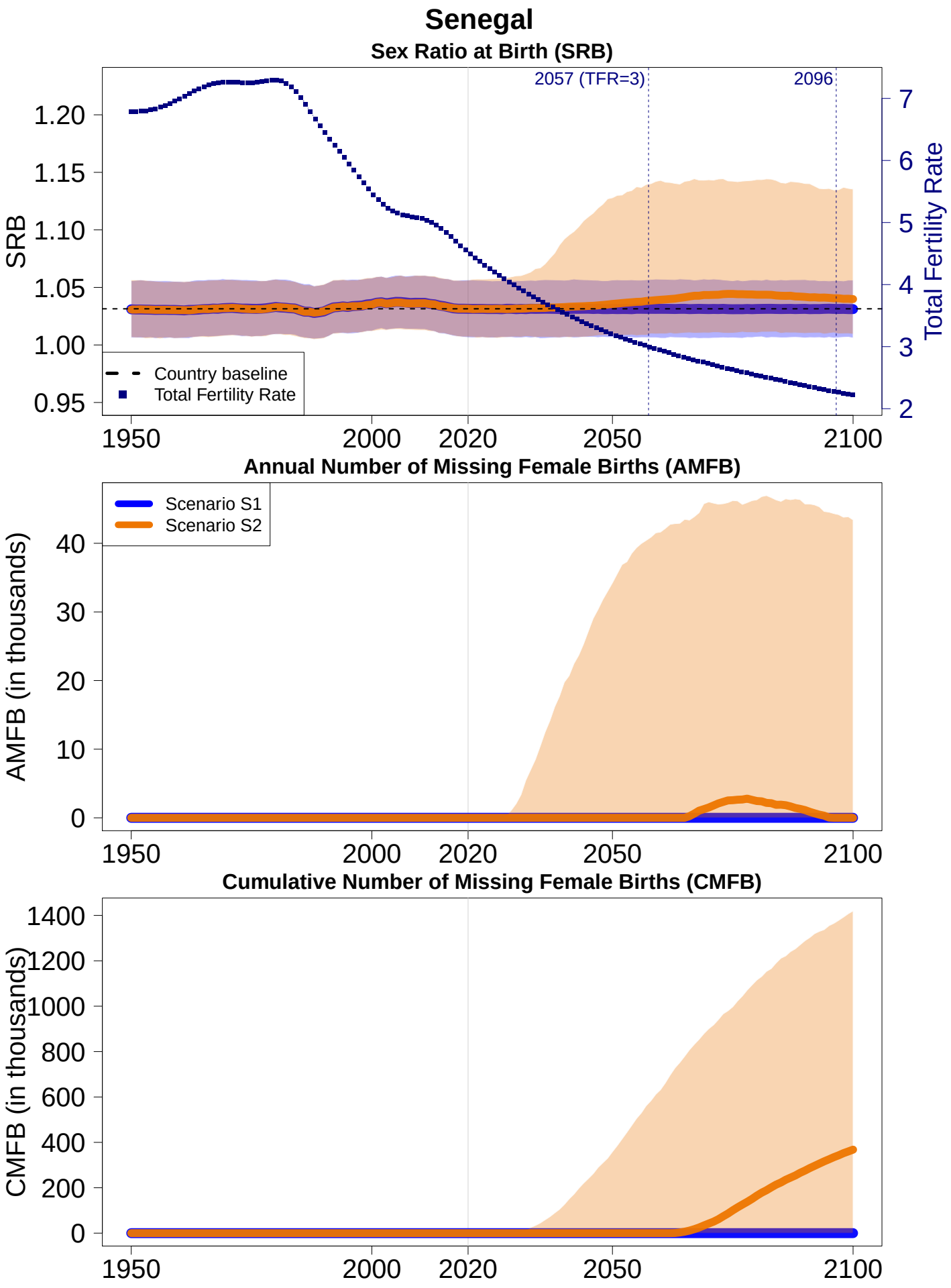

Montenegro
Sex Ratio at Birth (SRB)
1981 (TFR=2.2)
2029
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
4.5
4.0
3.5
3.0
2.5
2.0
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
8
6
4
2
0

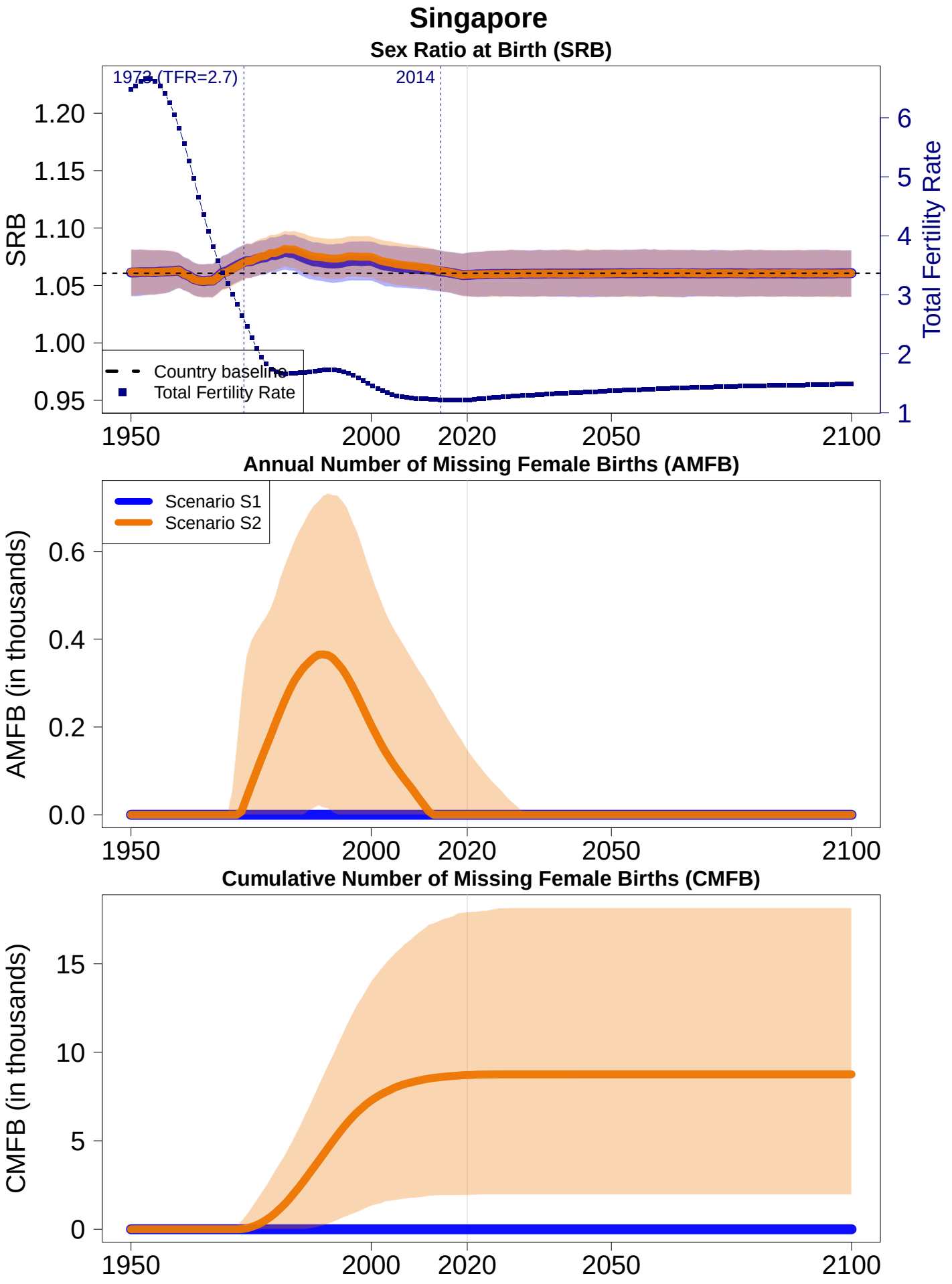

Morocco
Sex Ratio at Birth (SRB)
2002 (TFR=2.7)
2042
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
7
6
5
4
3
2
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
30
25
20
15
10
5
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1000
800
600
400
200
0


Nepal
Sex Ratio at Birth (SRB)
2007 (TFR=2.9)
2047
SRB
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
Country baseline
Total Fertility Rate
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
25
20
15
10
5
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
600
400
200
0

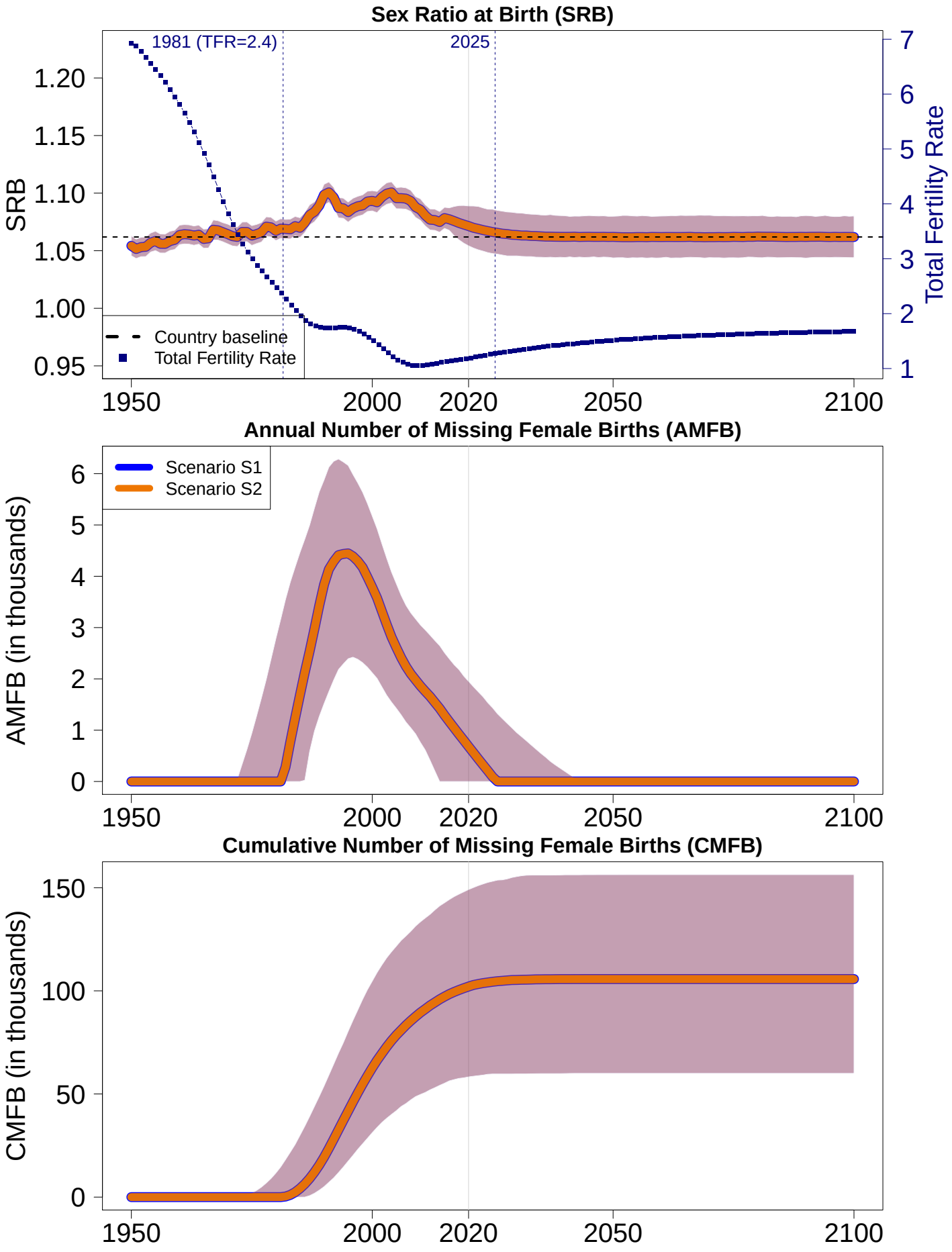

Nigeria
Sex Ratio at Birth (SRB)
2062 (TFR=3)
SRB
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
Country baseline
Total Fertility Rate
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
500
400
300
200
100
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
15000
10000
5000
0

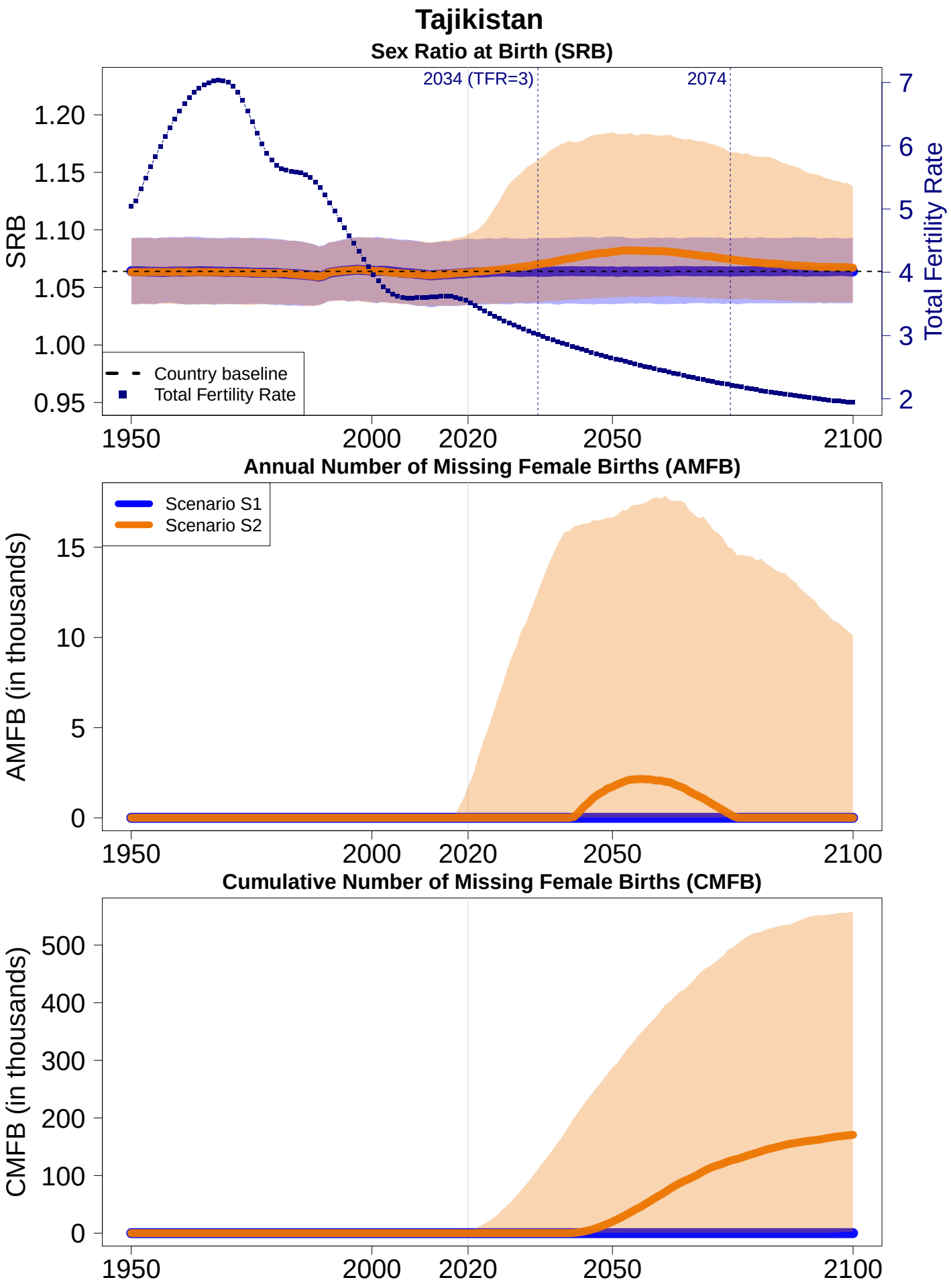

Pakistan
Sex Ratio at Birth (SRB)
2027 (TFR=3)
2067
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
300
250
200
150
100
50
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
10000
8000
6000
4000
2000
0

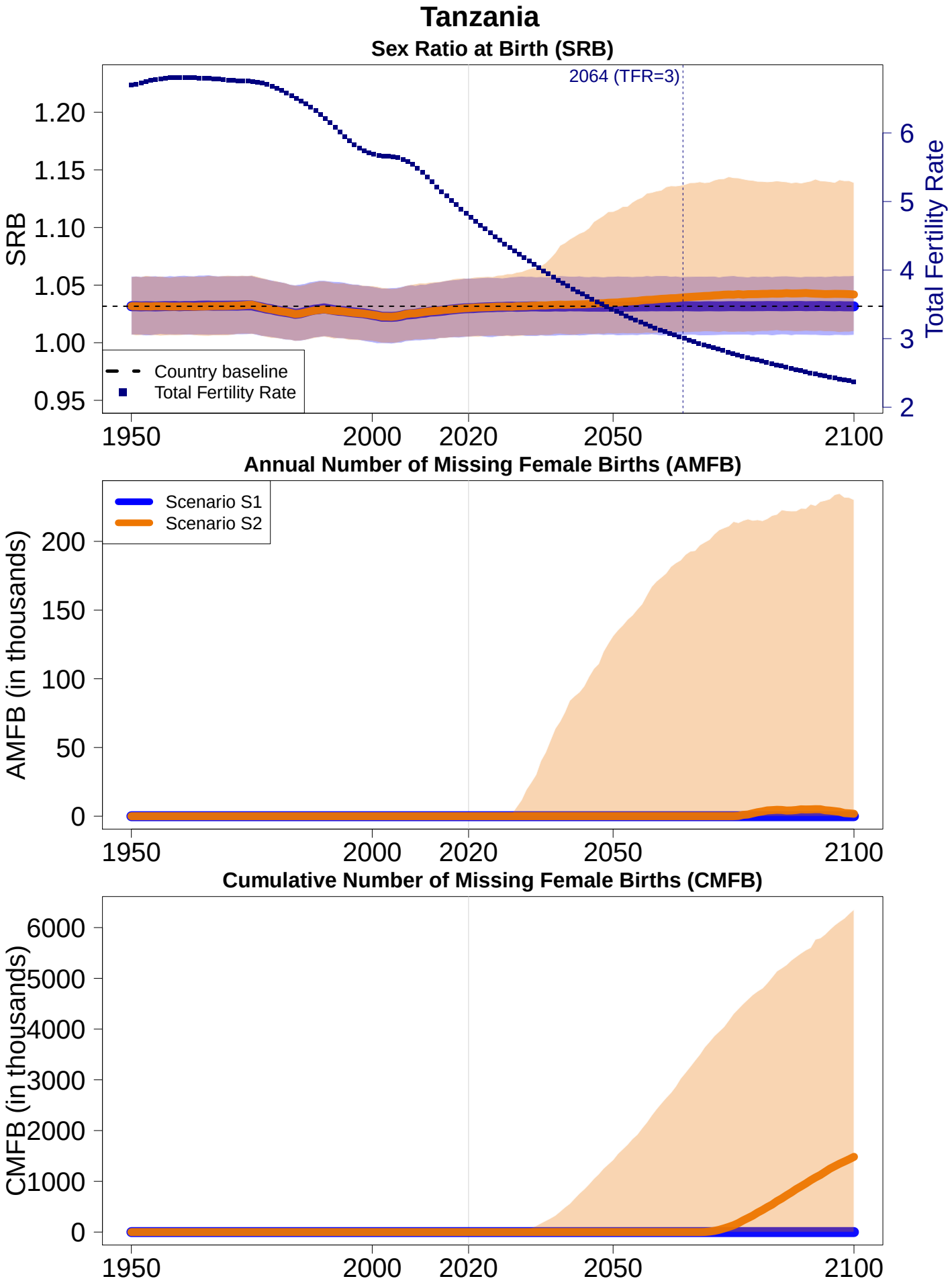

Senegal
Sex Ratio at Birth (SRB)
2057 (TFR=3)
2096
SRB
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
7
6
5
4
3
2
Country baseline
Total Fertility Rate
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
40
30
20
10
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1400
1200
1000
800
600
400
200
0

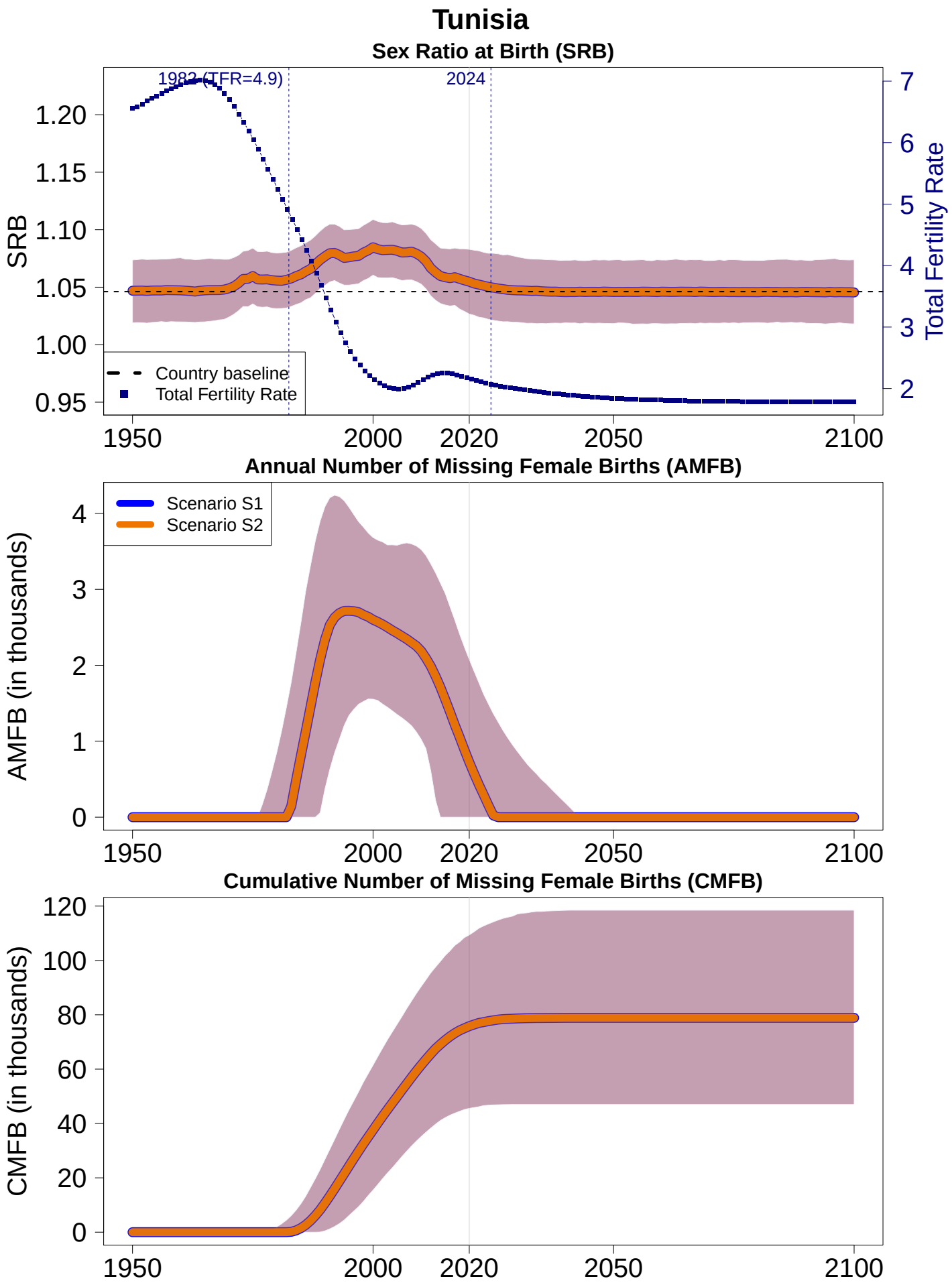

Singapore
Sex Ratio at Birth (SRB)
1973 (TFR=2.7)
2014
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
1
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
0.6
0.4
0.2
0.0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
15
10
5
0

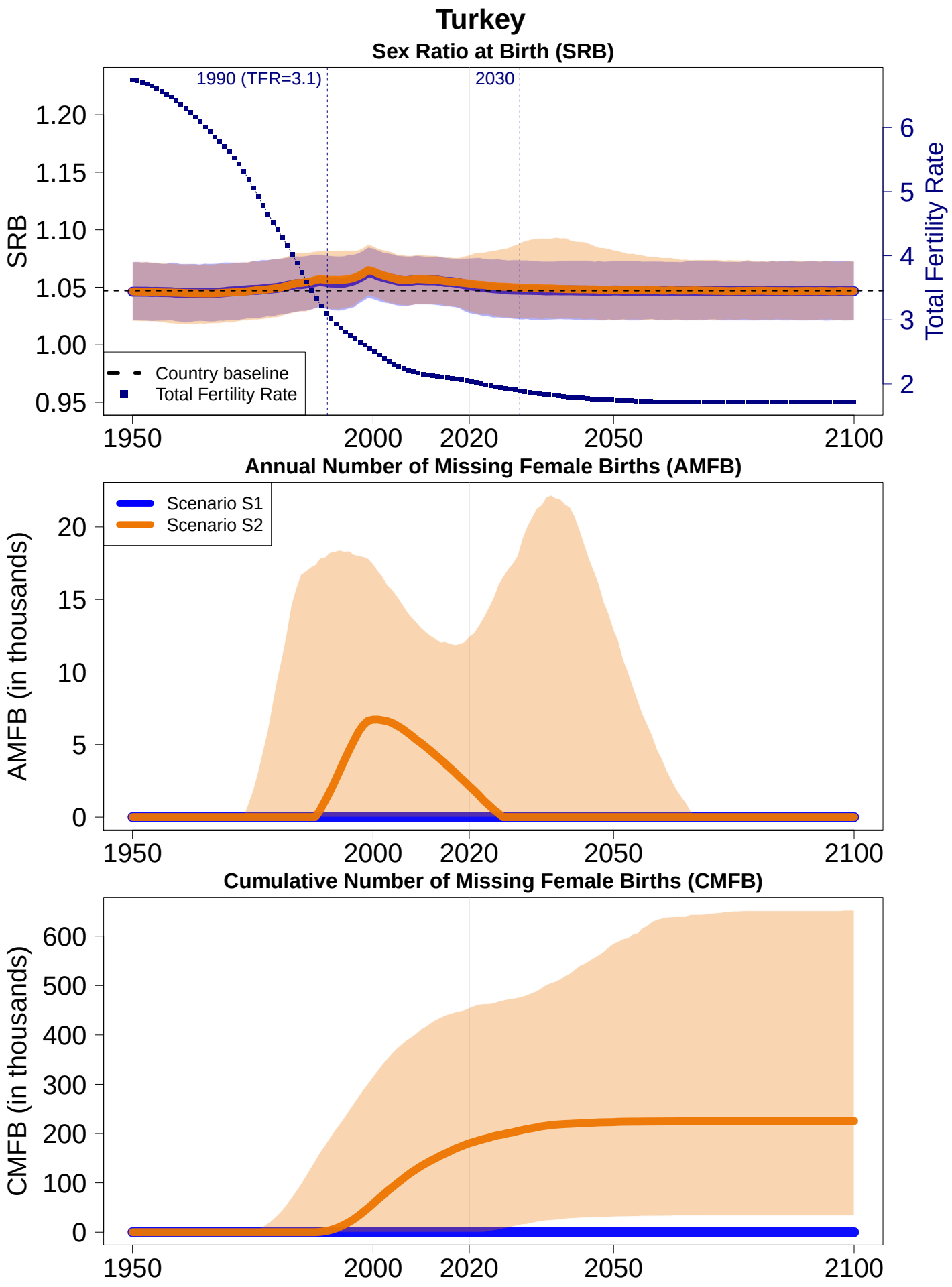
Taiwan, Province of China

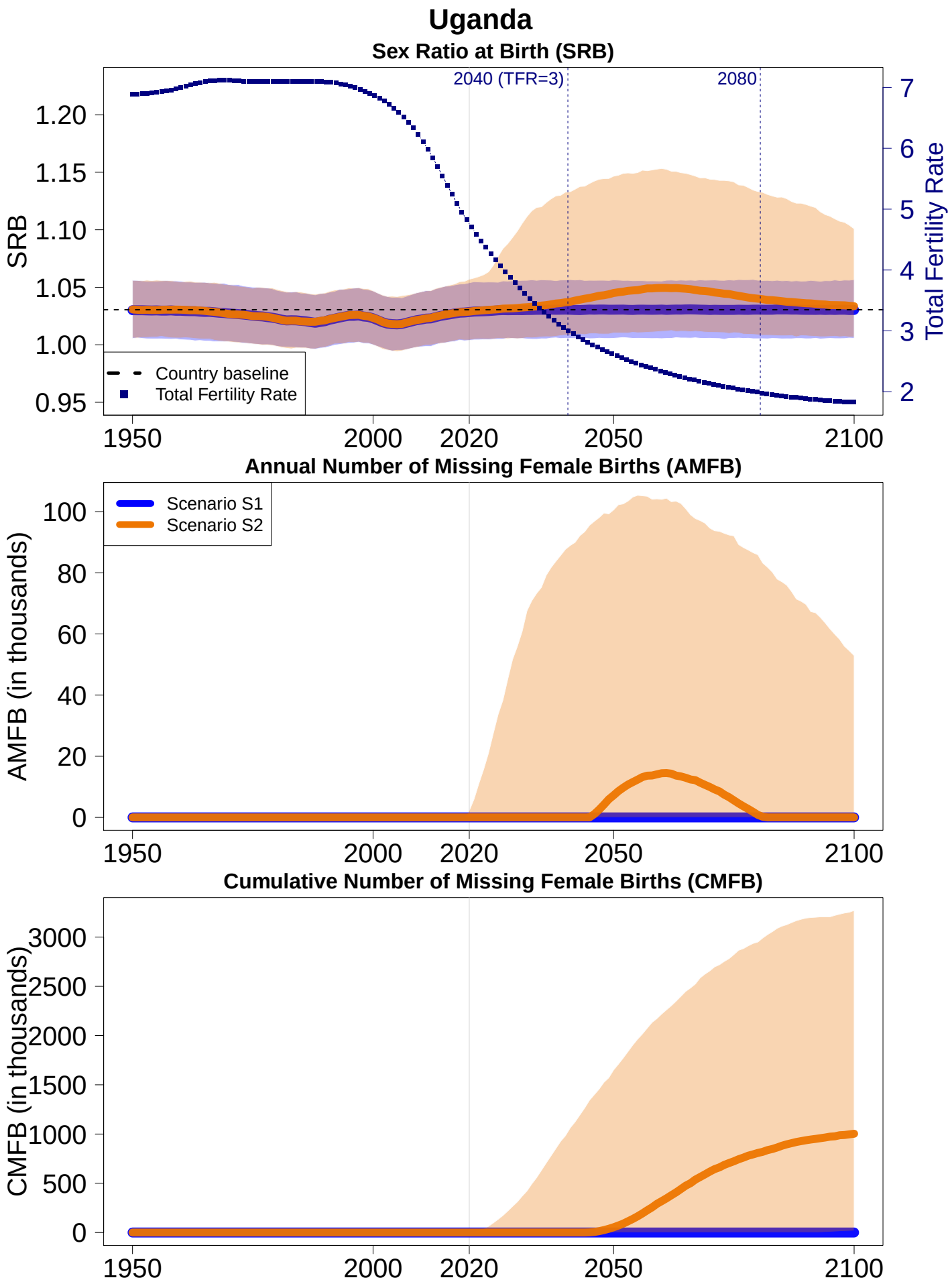


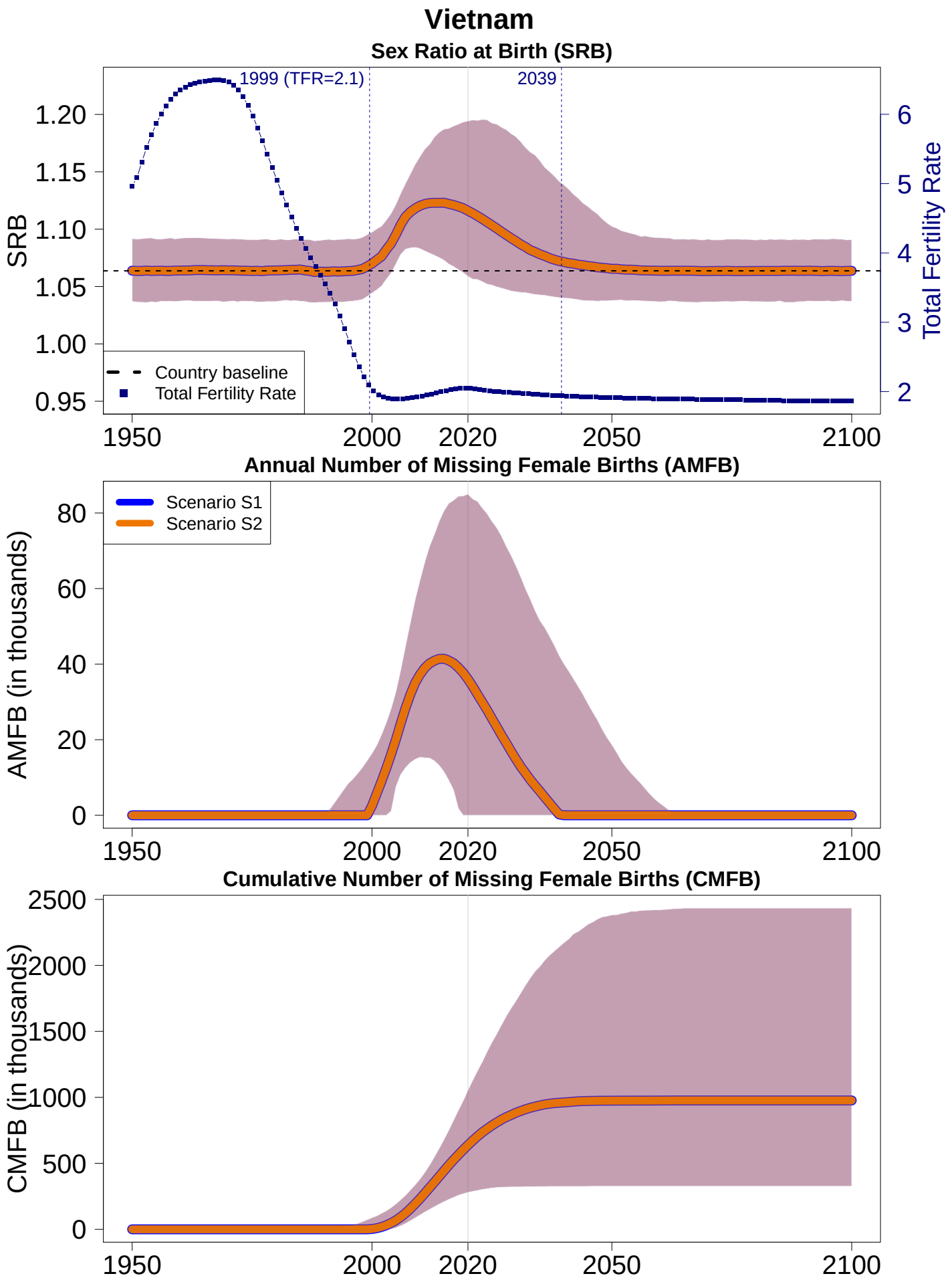

Tajikistan
Sex Ratio at Birth (SRB)
2034 (TFR=3)
2074
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100


Tanzania
Sex Ratio at Birth (SRB)
2064 (TFR=3)
SRB
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
Country baseline
Total Fertility Rate
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
200
150
100
50
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
6000
5000
4000
3000
2000
1000
0


Tunisia
Sex Ratio at Birth (SRB)
1982 (TFR=4.9)
2024
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100


Turkey
Sex Ratio at Birth (SRB)
1990 (TFR=3.1)
2030
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1.20
1.15
1.10
1.05
1.00
0.95
6
5
4
3
2
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
AMFB (in thousands)
Scenario S1
Scenario S2
20
15
10
5
0
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
600
500
400
300
200
100
0


Uganda
Sex Ratio at Birth (SRB)
2040 (TFR=3)
2080
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
1950
2000
2020
2050
2100
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)


Vietnam
Sex Ratio at Birth (SRB)
1999 (TFR=2.1)
2039
SRB
Total Fertility Rate
Country baseline
Total Fertility Rate
Annual Number of Missing Female Births (AMFB)
Scenario S1
Scenario S2
AMFB (in thousands)
Cumulative Number of Missing Female Births (CMFB)
CMFB (in thousands)
1950
2000
2020
2050
2100

References

[1] Chao F, Gerland P, Cook AR, Alkema L. Global estimation and scenario-based projections of sex ratio at birth and missing female births using a Bayesian hierarchical time series mixture model. arXiv preprint arXiv:200607101. 2020, accepted by Annals of Applied Statistics;.

[2] Chao F, Gerland P, Cook AR, Alkema L. SRB database (pnas.1812593116.sd01). 2019;DOI: 10.6084/m9.figshare.12764249. Available at https://www.pnas.org/highwire/filestream/859048/field_highwire_adjunct_files/1/pnas.1812593116.sd01.xlsx.

[3] Chao F, Gerland P, Cook AR, Alkema L. Systematic assessment of the sex ratio at birth for all countries and estimation of national imbalances and regional reference levels. Proceedings of the National Academy of Sciences. 2019;116(19):9303–9311.

[4] United Nations, Department of Economic and Social Affairs, Population Division. World Population Prospects: The 2019 Revision; 2019. Available from http://esa.un.org/unpd/wpp/Download/Standard/Population/.

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