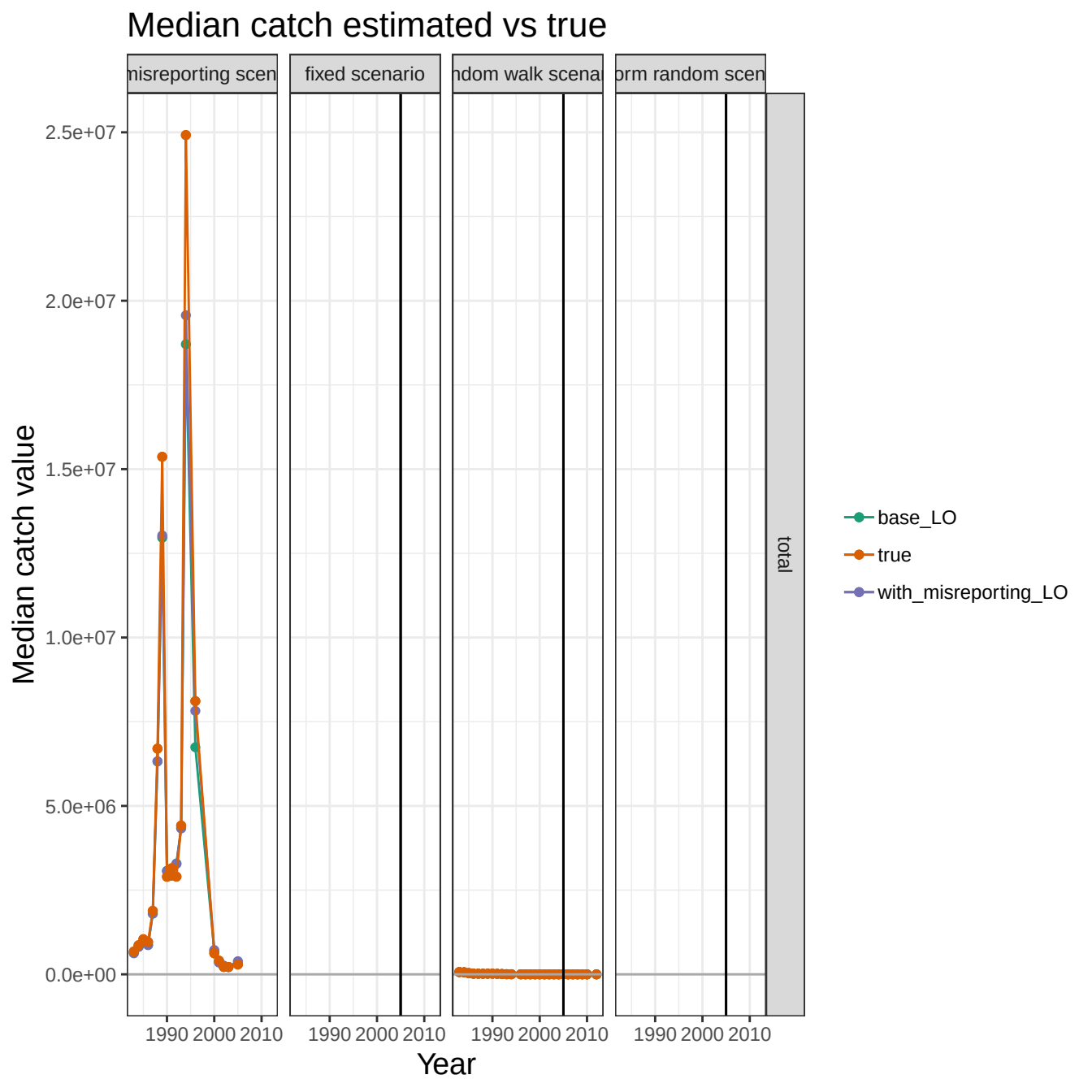
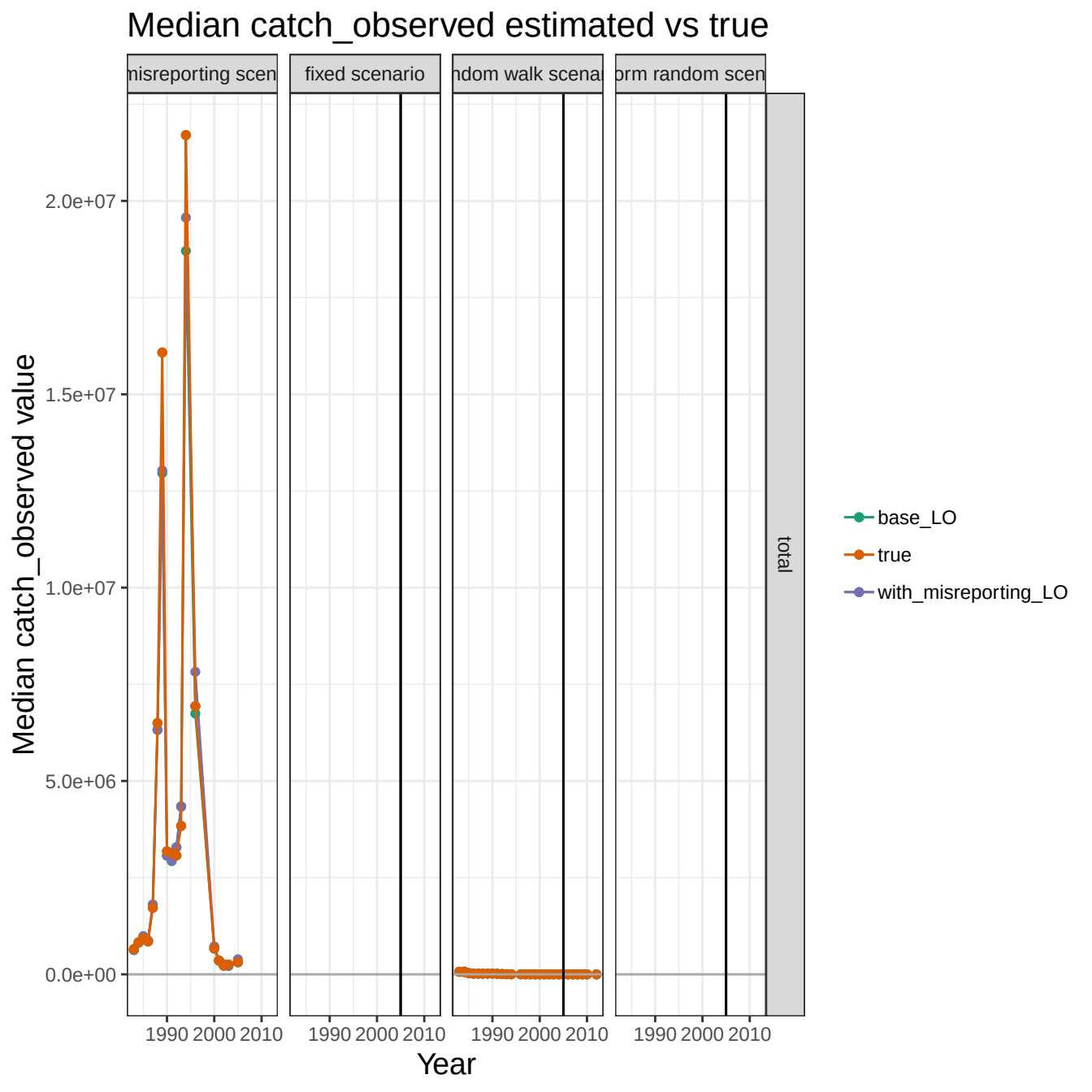
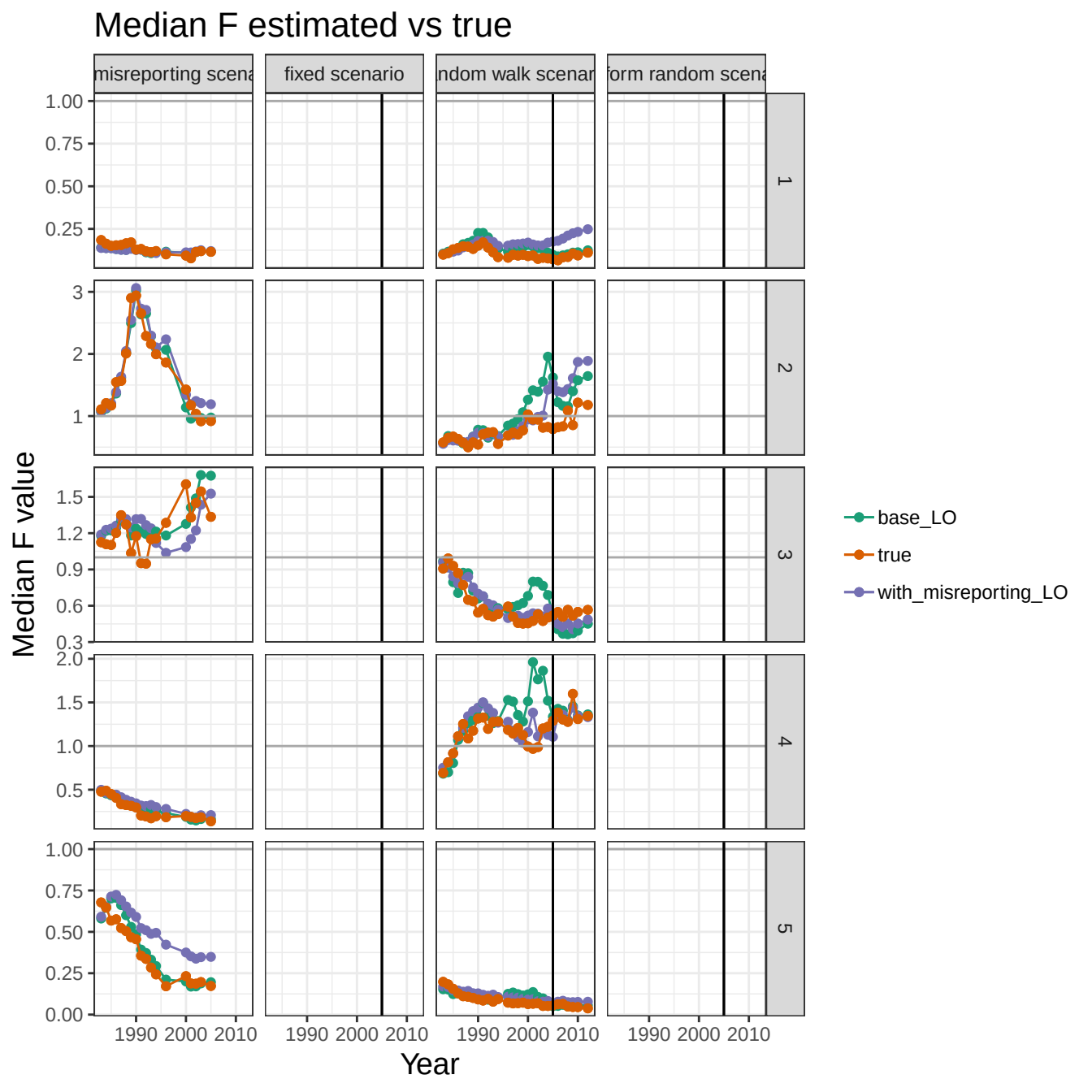
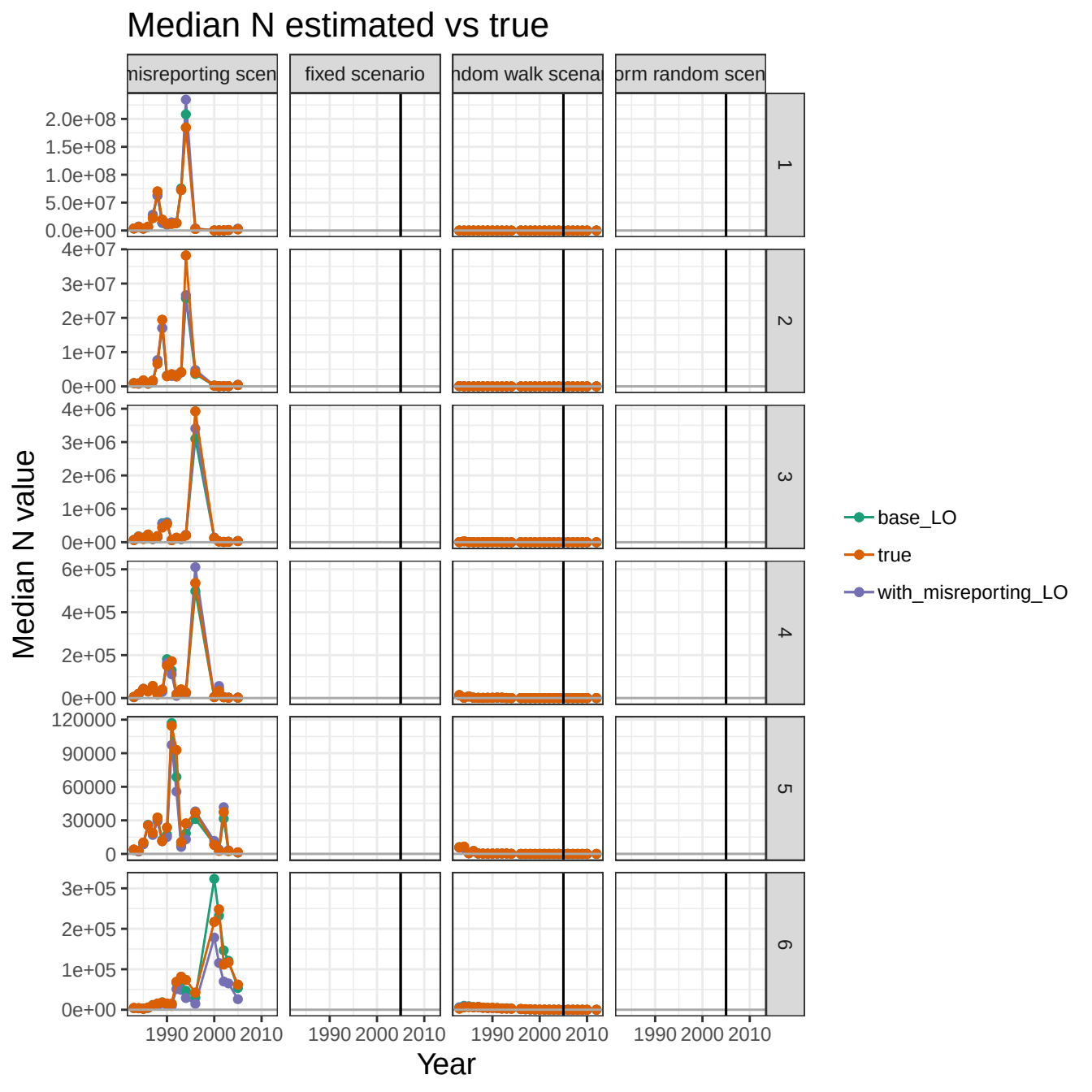
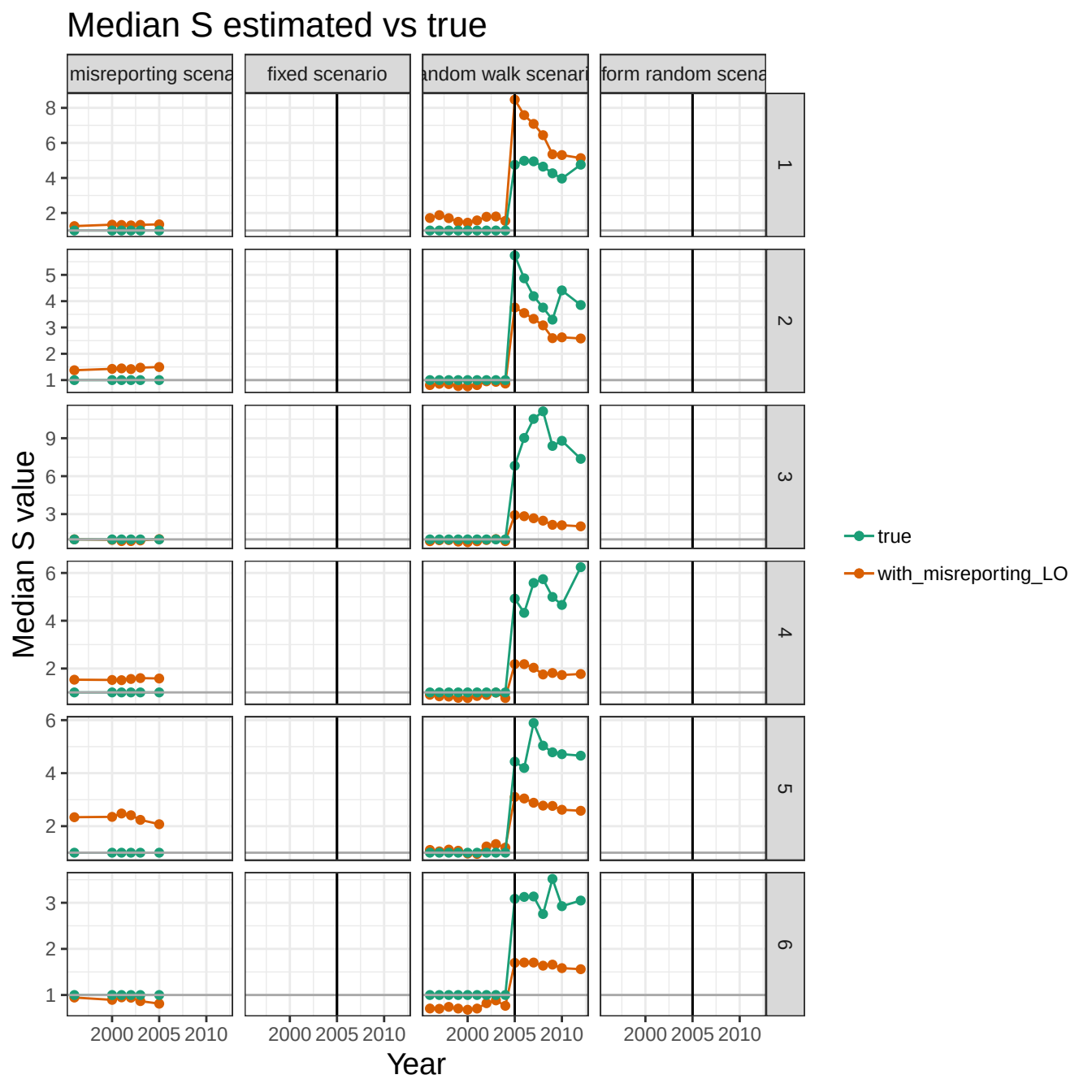
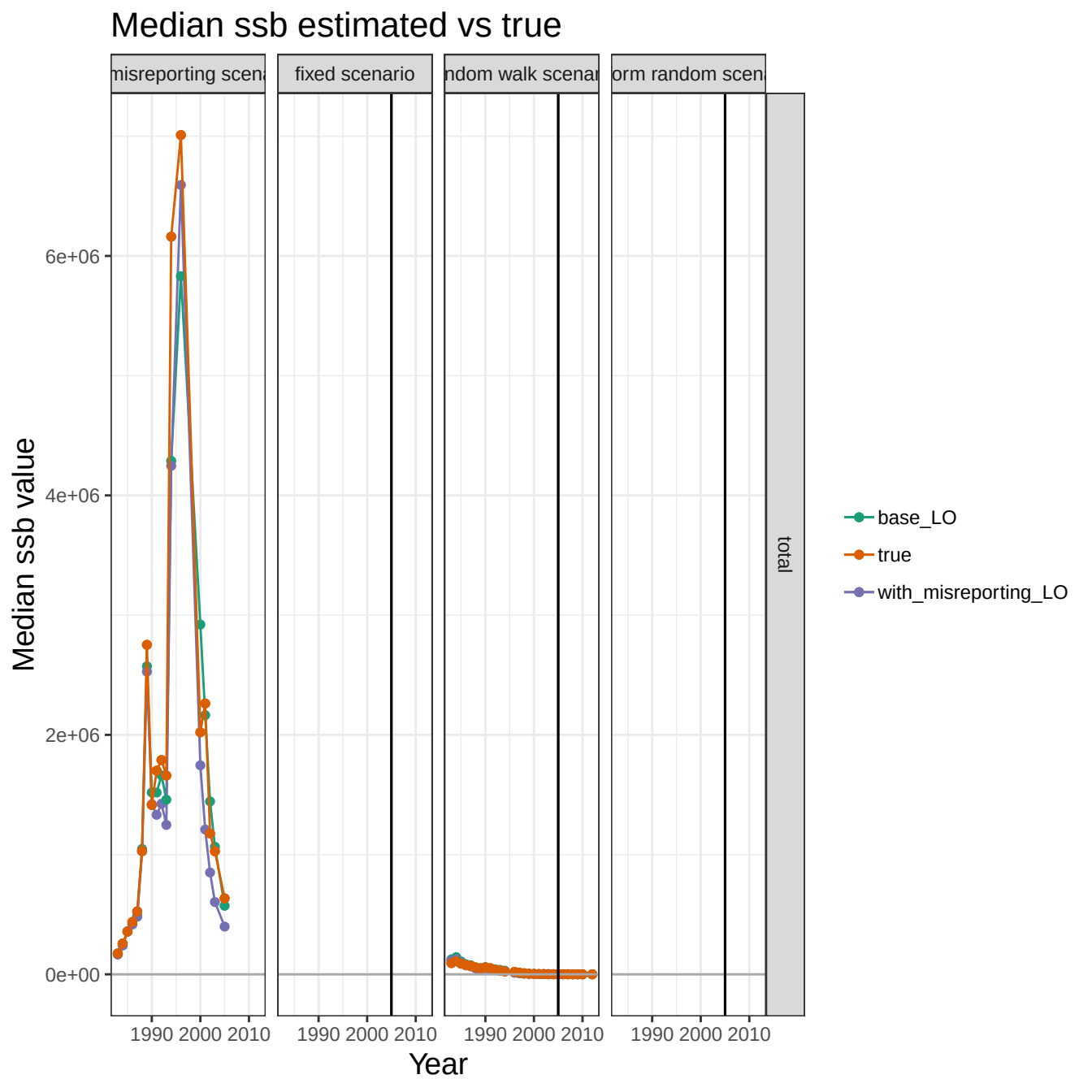

Median catch estimated vs true
misreporting scen
fixed scenario
ndom walk scena
orm random scen
total
Median catch value
2.5e+07
2.0e+07
1.5e+07
1.0e+07
5.0e+06
0.0e+00
1990 2000 2010
Year
base_LO
true
with_misreporting_LO

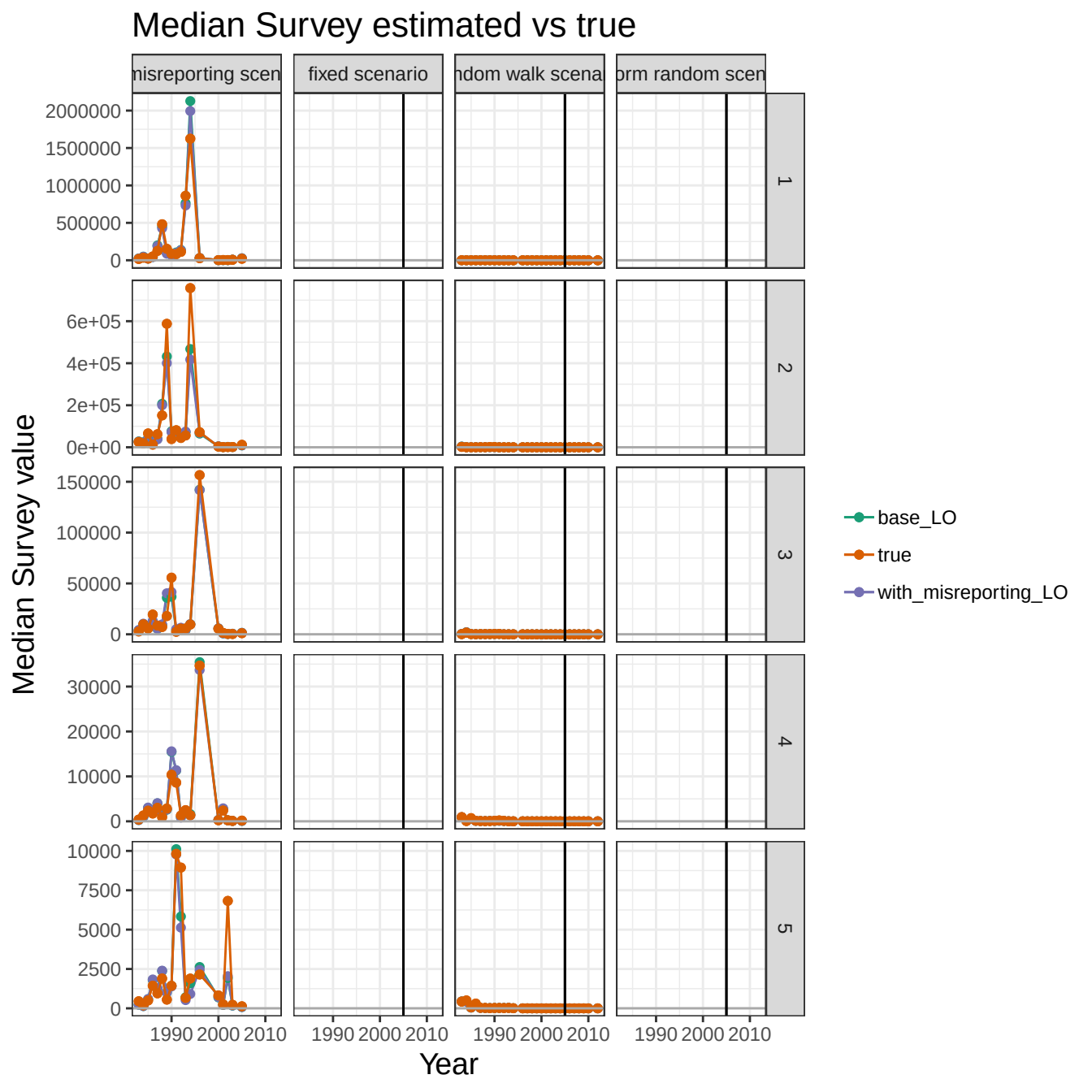

Median catch_observed estimated vs true
misreporting scen
fixed scenario
ndom walk scenar
orm random scen
total
Median catch_observed value
2.0e+07
1.5e+07
1.0e+07
5.0e+06
0.0e+00
1990 2000 2010
Year
base_LO
true
with_misreporting_LO

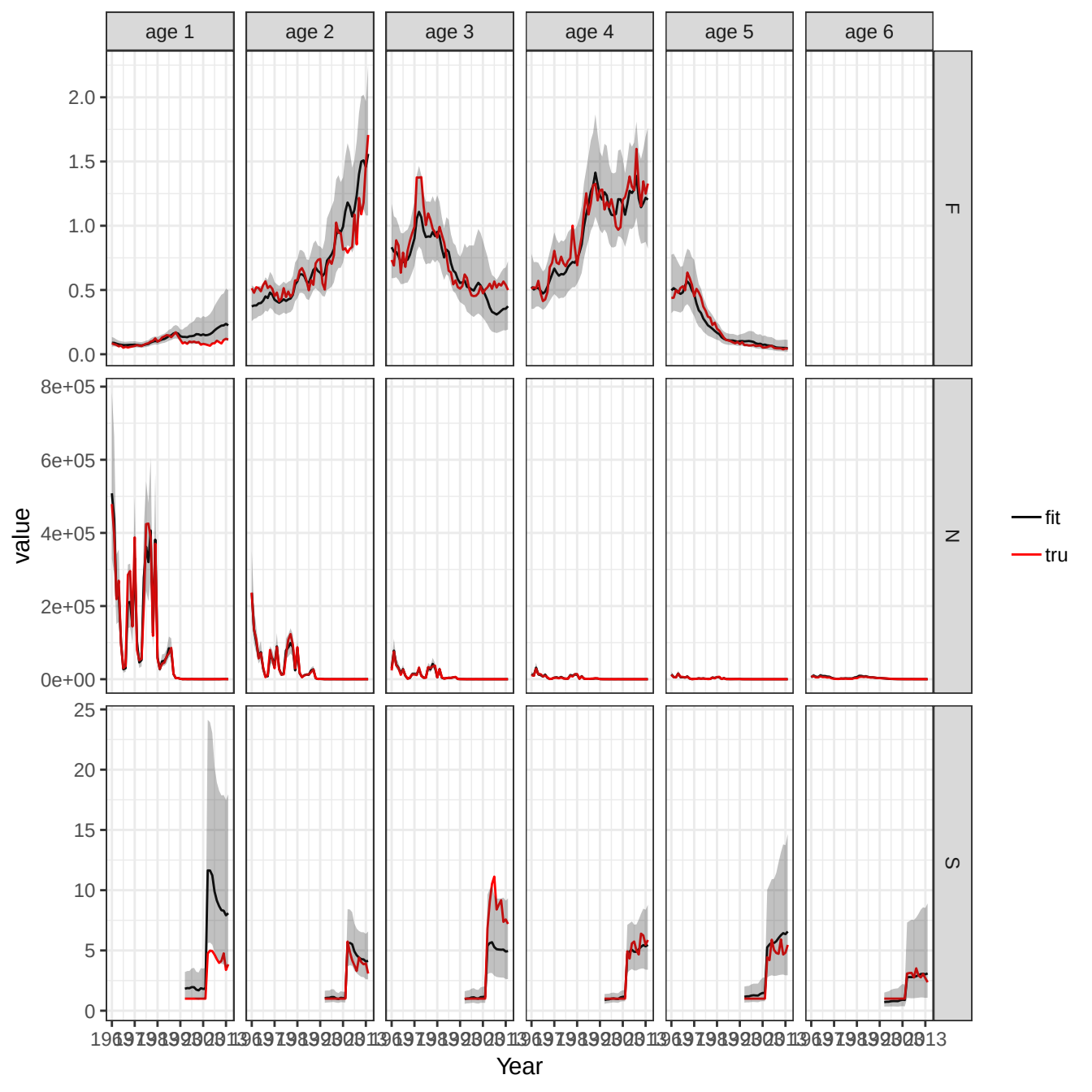

Median F estimated vs true
misreporting scena
fixed scenario
ndom walk scenar
form random scena
1
2
3
4
5
1.00
0.75
0.50
0.25
3
2
1
1.5
1.2
0.9
0.6
0.3
2.0
1.5
1.0
0.5
1.00
0.75
0.50
0.25
0.00
1990 2000 2010
Median F value
Year
base_LO
true
with_misreporting_LO

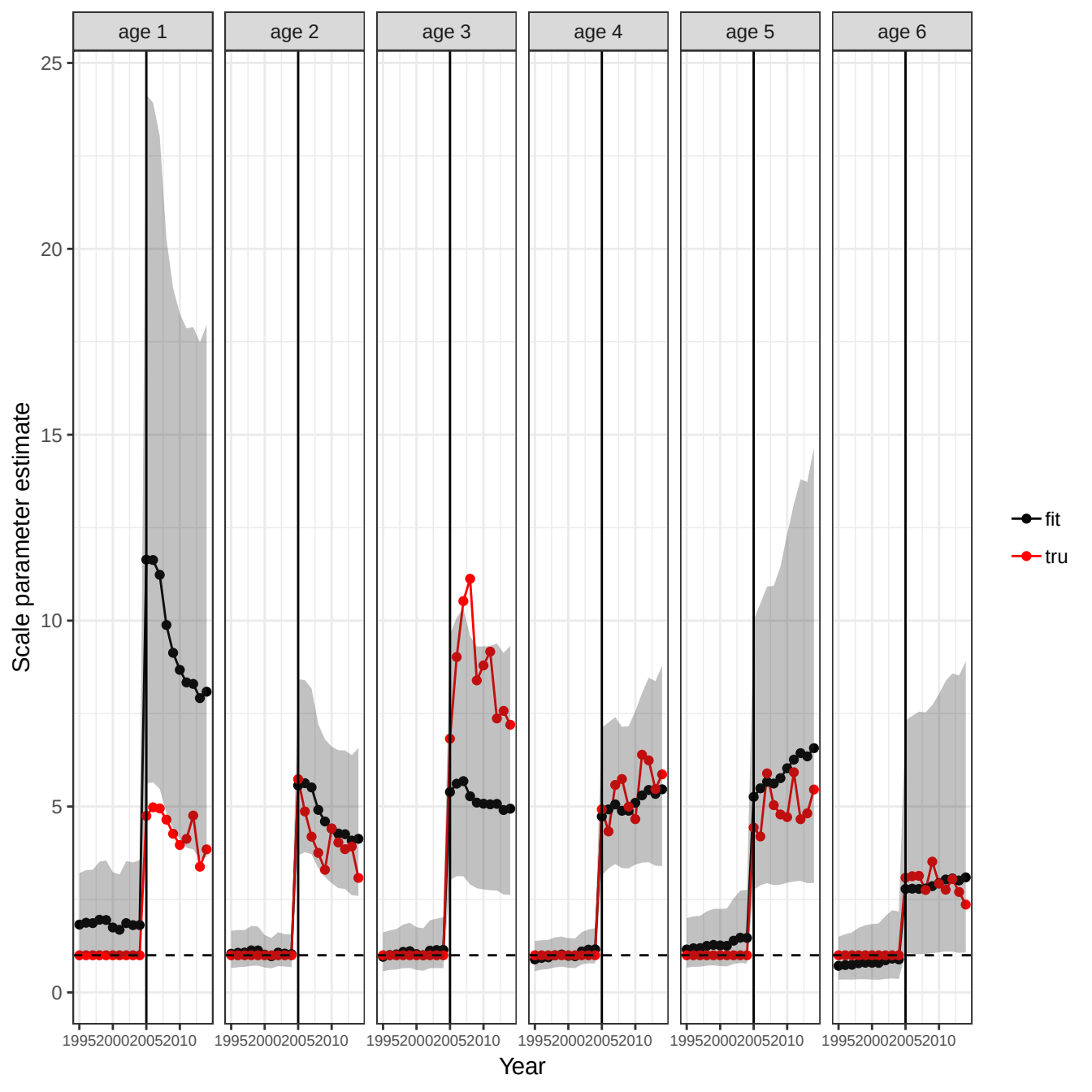

Median N estimated vs true
misreporting scen
fixed scenario
ndom walk scena
orm random scen
1
2
3
4
5
6
2.0e+08
1.5e+08
1.0e+08
5.0e+07
0.0e+00
4e+07
3e+07
2e+07
1e+07
0e+00
4e+06
3e+06
2e+06
1e+06
0e+00
6e+05
4e+05
2e+05
0e+00
120000
90000
60000
30000
0
3e+05
2e+05
1e+05
0e+00
1990 2000 2010
Median N value
Year
base_LO
true
with_misreporting_LO

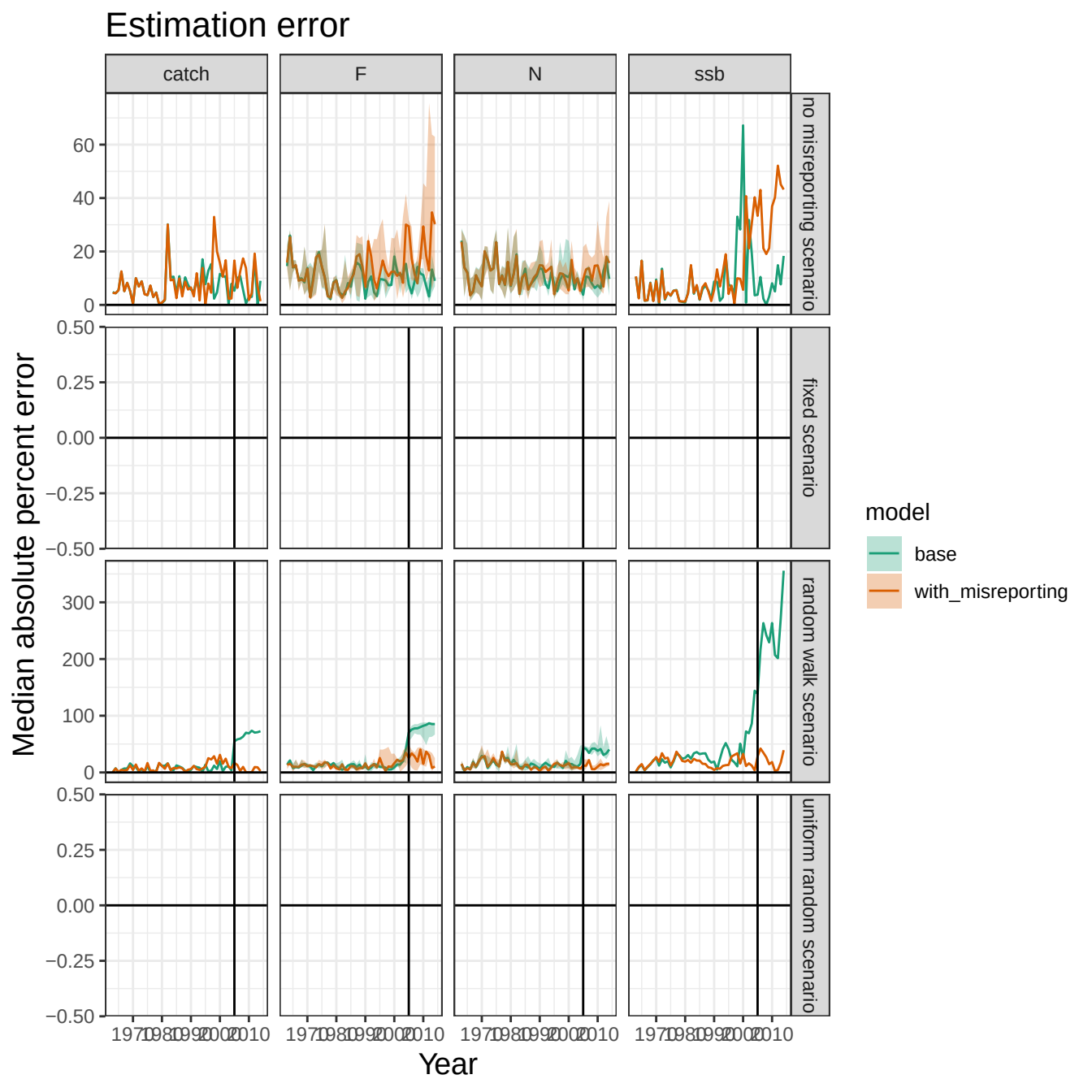

Median S estimated vs true
misreporting scena
fixed scenario
ndom walk scenari
form random scena
1
2
3
4
5
6
Median S value
Year
2000 2005 2010
true
with_misreporting_LO

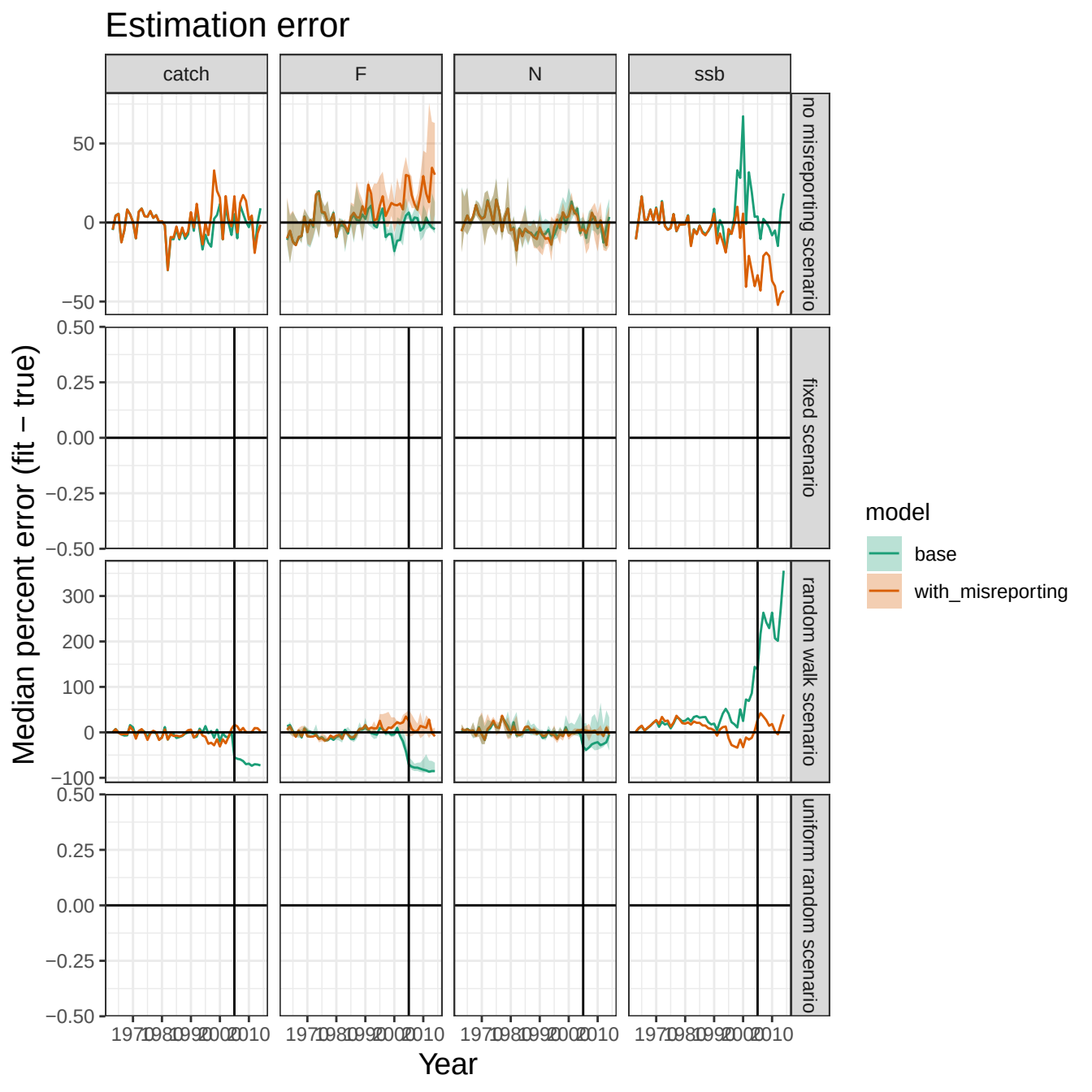

Median ssb estimated vs true
misreporting scena
fixed scenario
ndom walk scenar
orm random scena
total
Median ssb value
6e+06
4e+06
2e+06
0e+00
1990 2000 2010
Year
base_LO
true
with_misreporting_LO

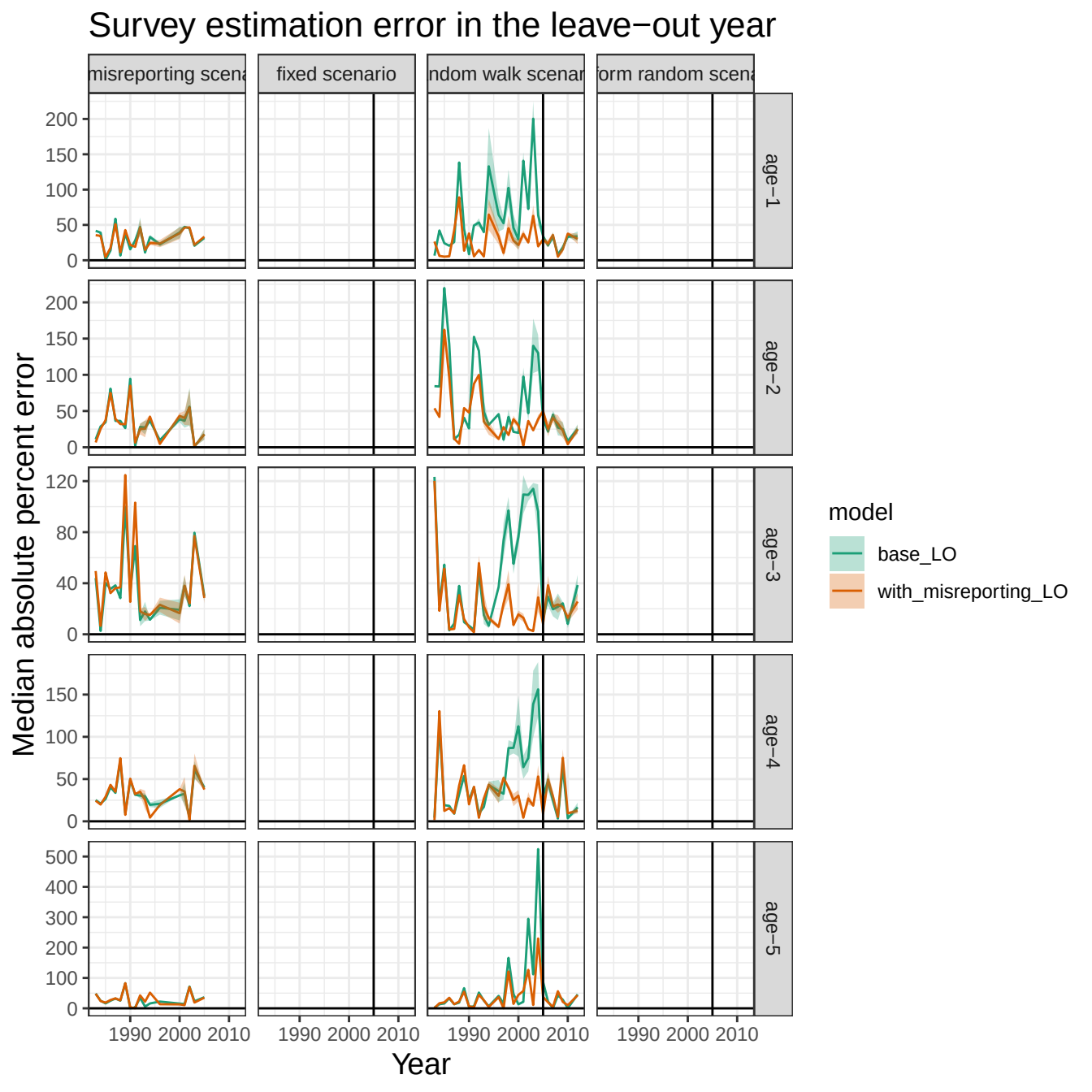

Median Survey estimated vs true
misreporting scen
fixed scenario
ndom walk scena
orm random scen
1
2
3
4
5
2000000
1500000
1000000
500000
0
6e+05
4e+05
2e+05
0e+00
150000
100000
50000
30000
20000
10000
7500
5000
2500
1990 2000 2010
Median Survey value
Year
base_LO
true
with_misreporting_LO

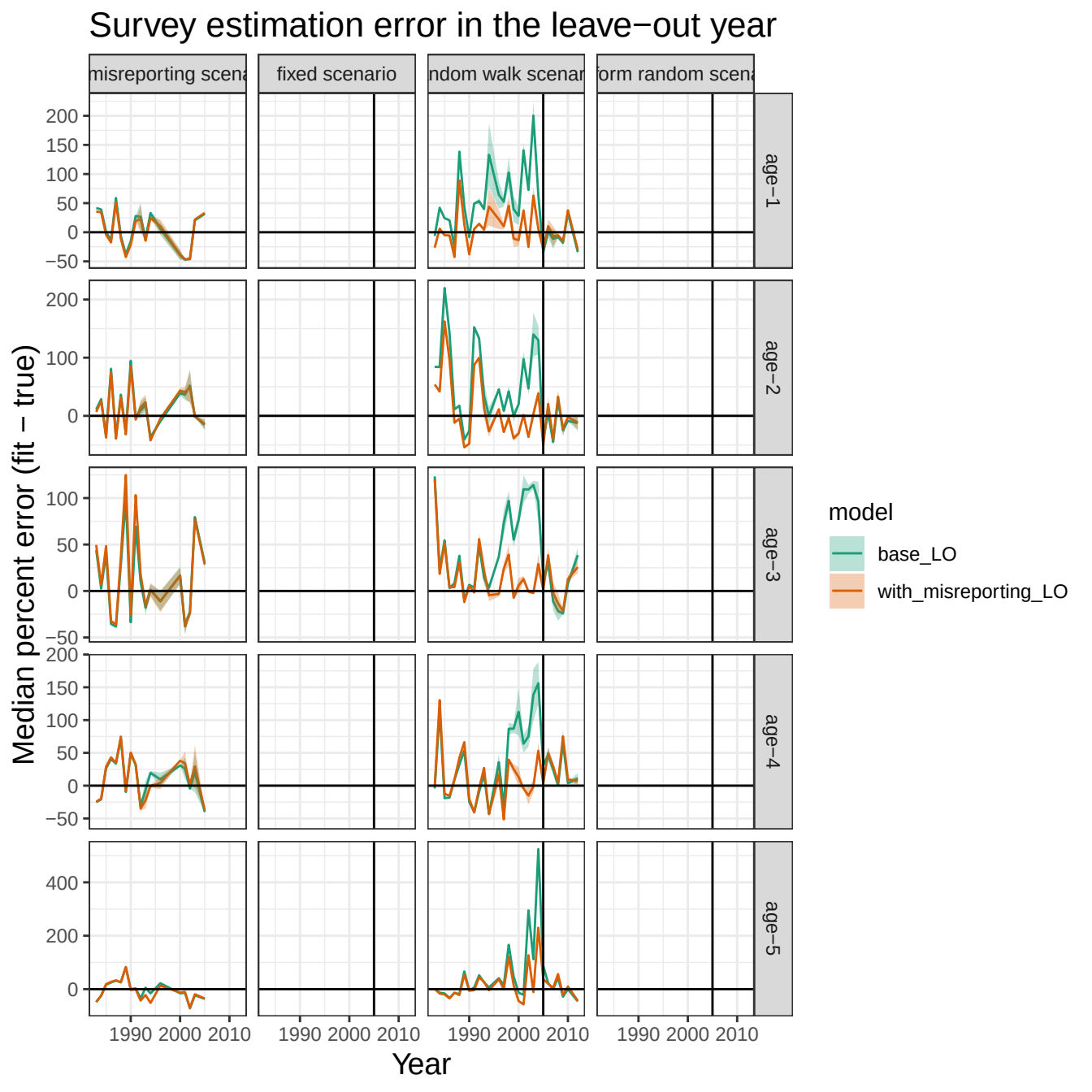

age 1
age 2
age 3
age 4
age 5
age 6
F
N
S
value
Year
fit
tru

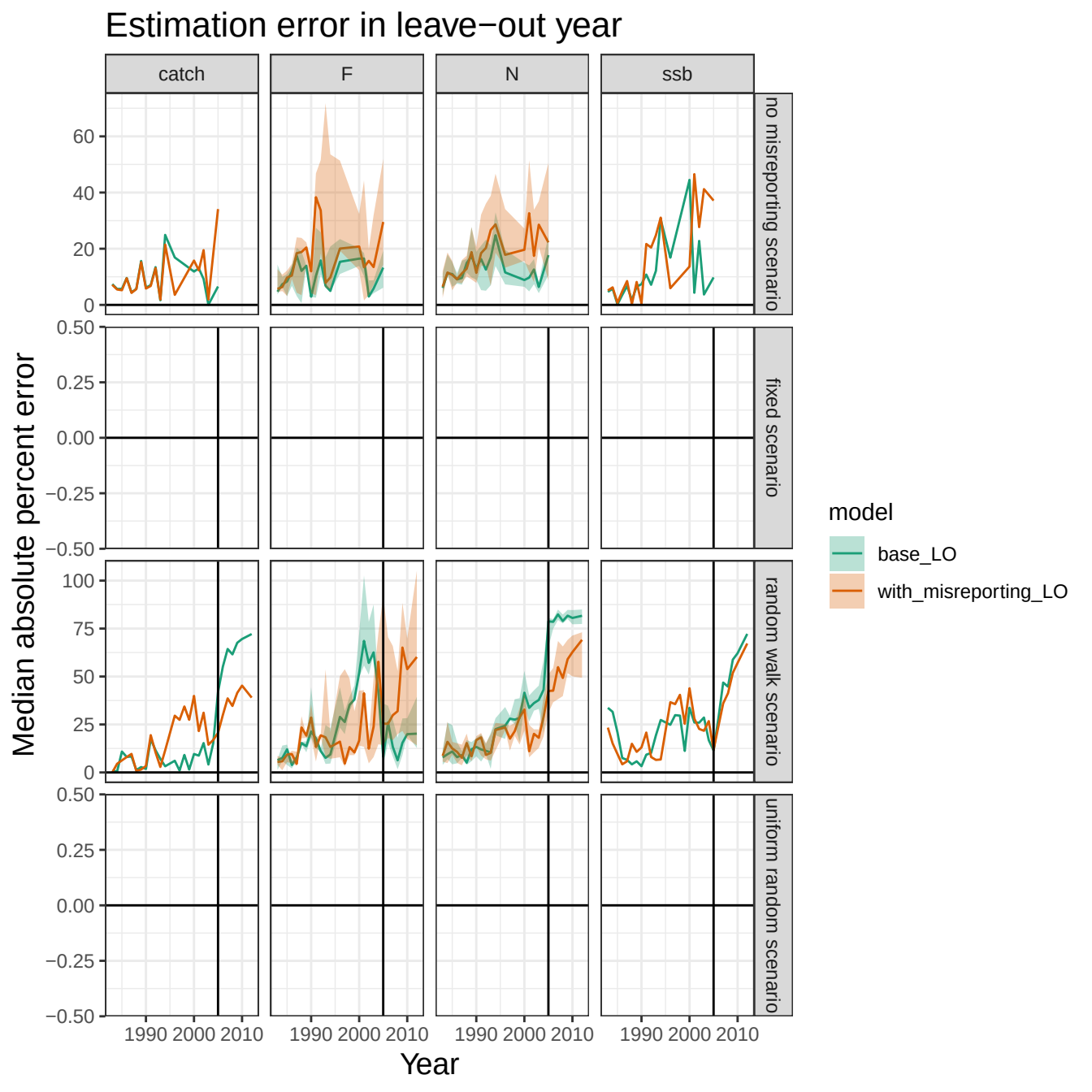

age 1
age 2
age 3
age 4
age 5
age 6
Scale parameter estimate
25
20
15
10
5
0
1995200020052010
Year
fit
tru

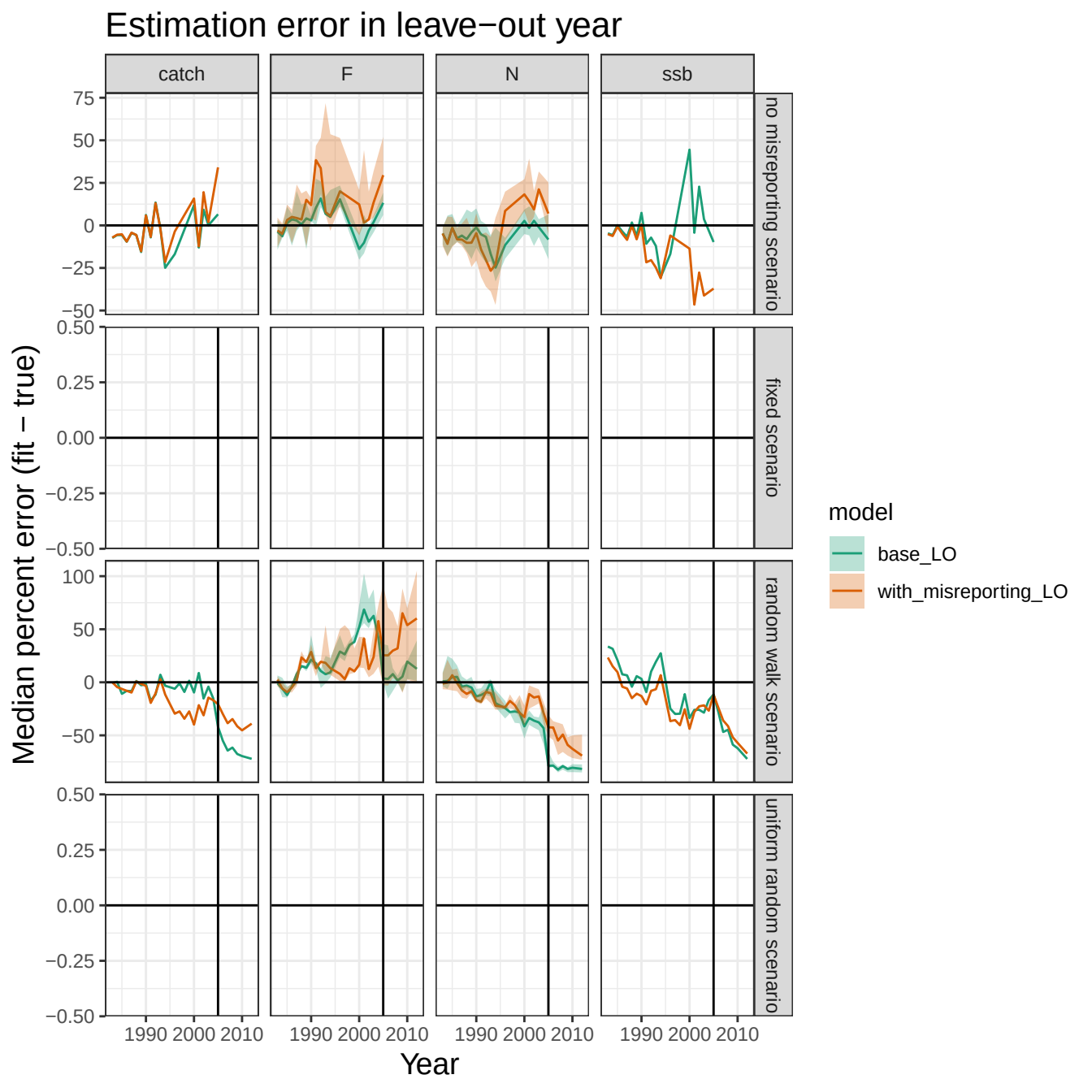

Estimation error
catch
F
N
ssb
no misreporting scenario
fixed scenario
random walk scenario
uniform random scenario
Median absolute percent error
Year
model
base
with_misreporting

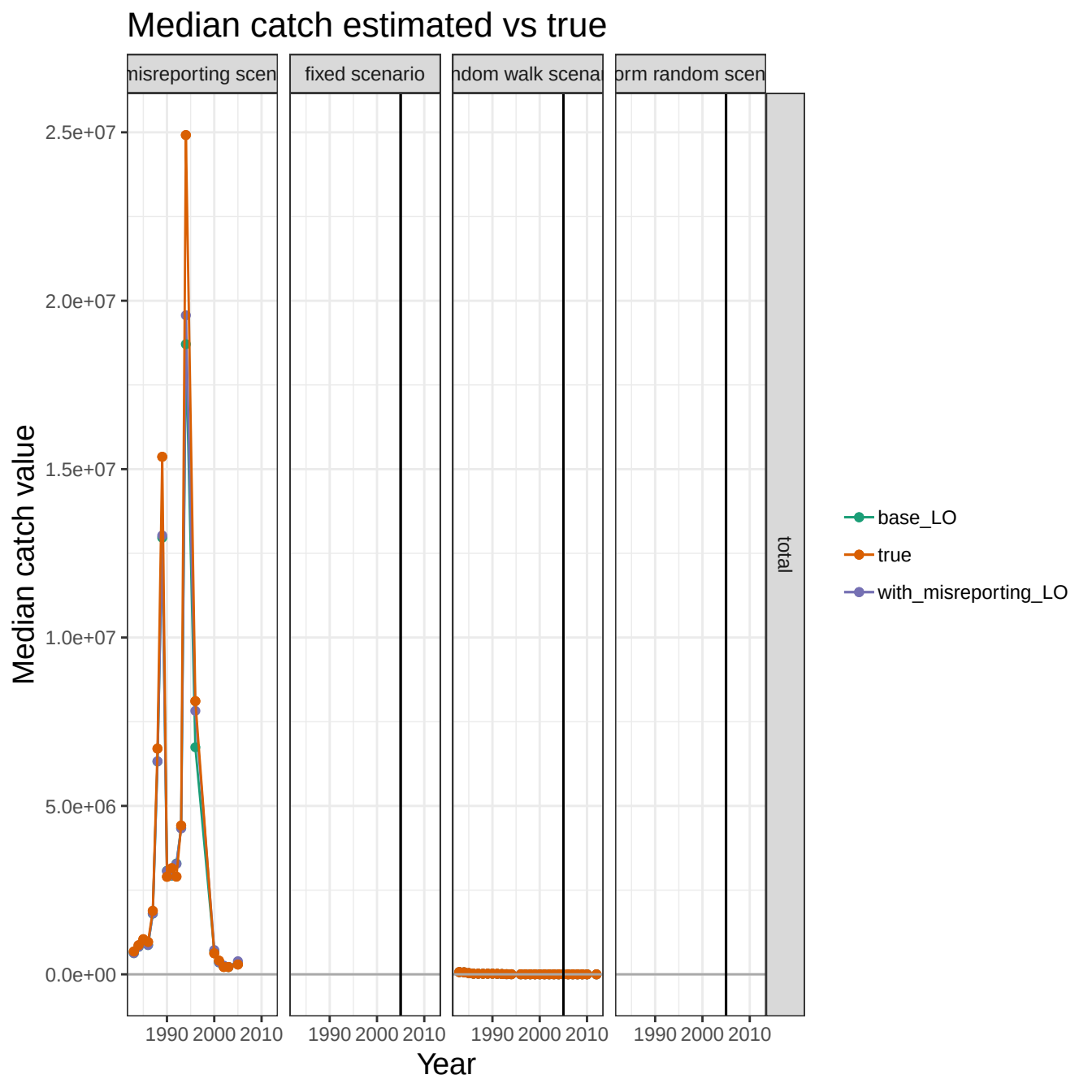

Estimation error
catch
F
N
ssb
no misreporting scenario
fixed scenario
random walk scenario
uniform random scenario
Median percent error (fit – true)
Year
model
base
with_misreporting

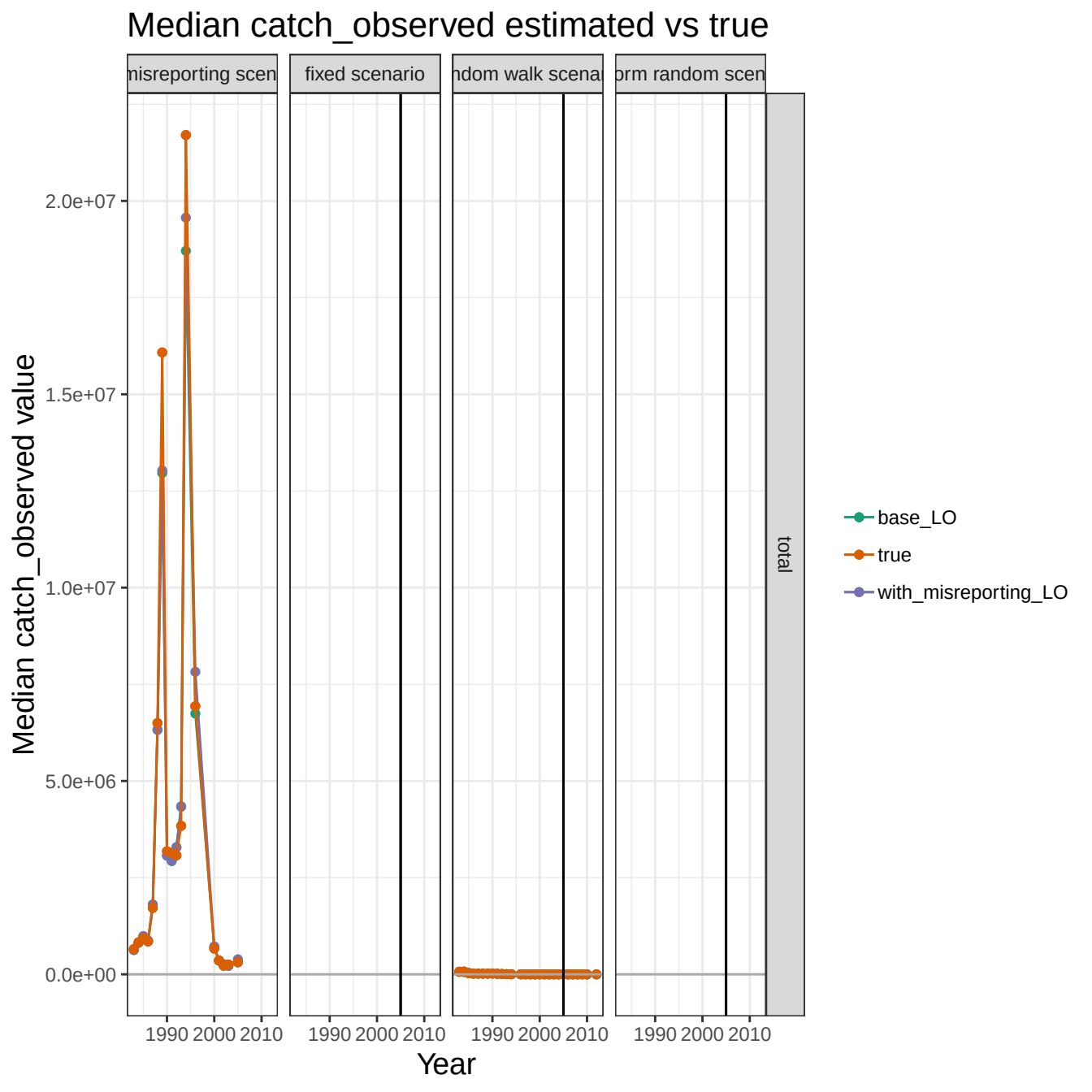

Survey estimation error in the leave−out year
misreporting scena
fixed scenario
ndom walk scenar
form random scena
age−1
age−2
age−3
age−4
age−5
Median absolute percent error
Year
model
base_LO
with_misreporting_LO

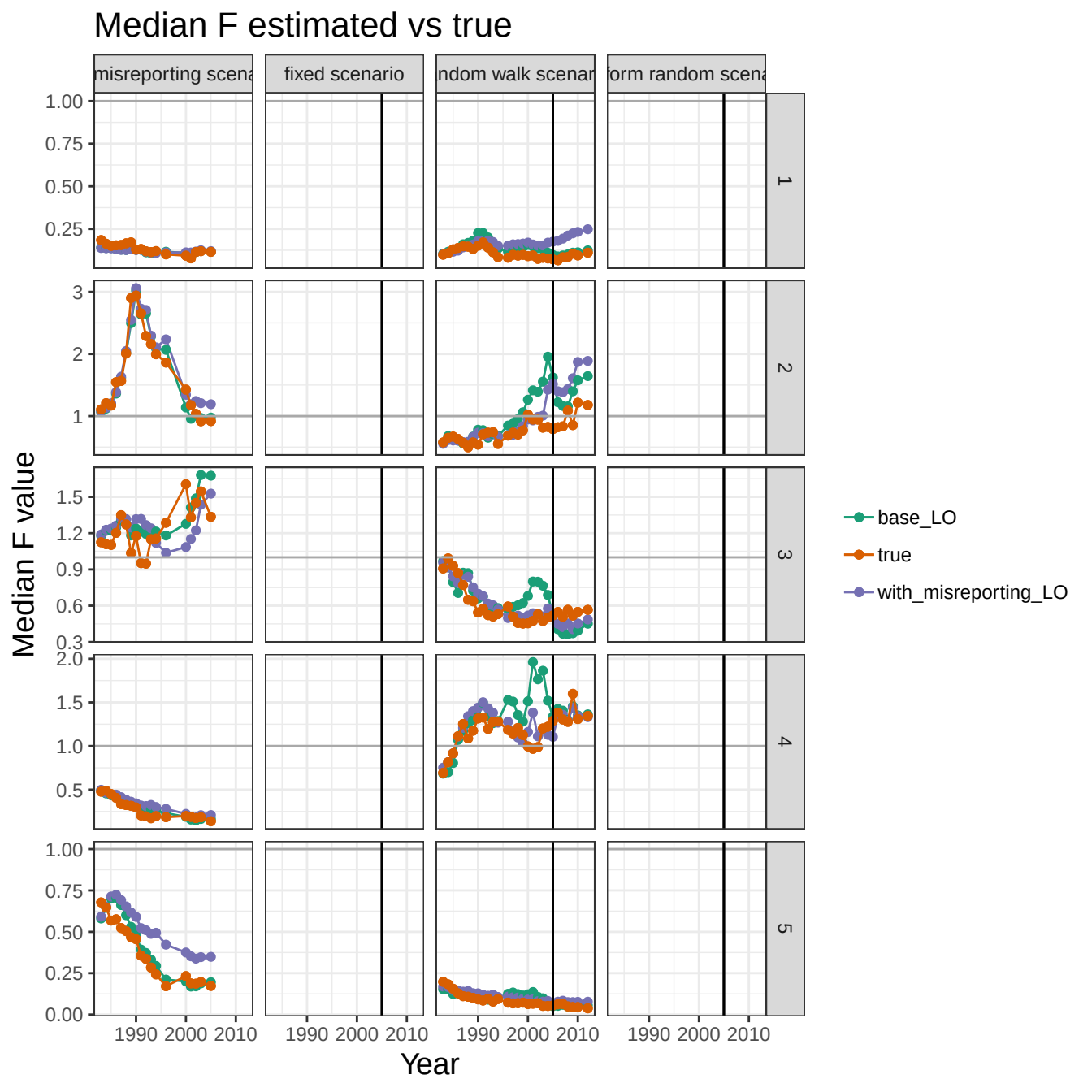

Survey estimation error in the leave−out year
misreporting scena
fixed scenario
ndom walk scenar
form random scena
age−1
age−2
age−3
age−4
age−5
Median percent error (fit − true)
Year
model
base_LO
with_misreporting_LO

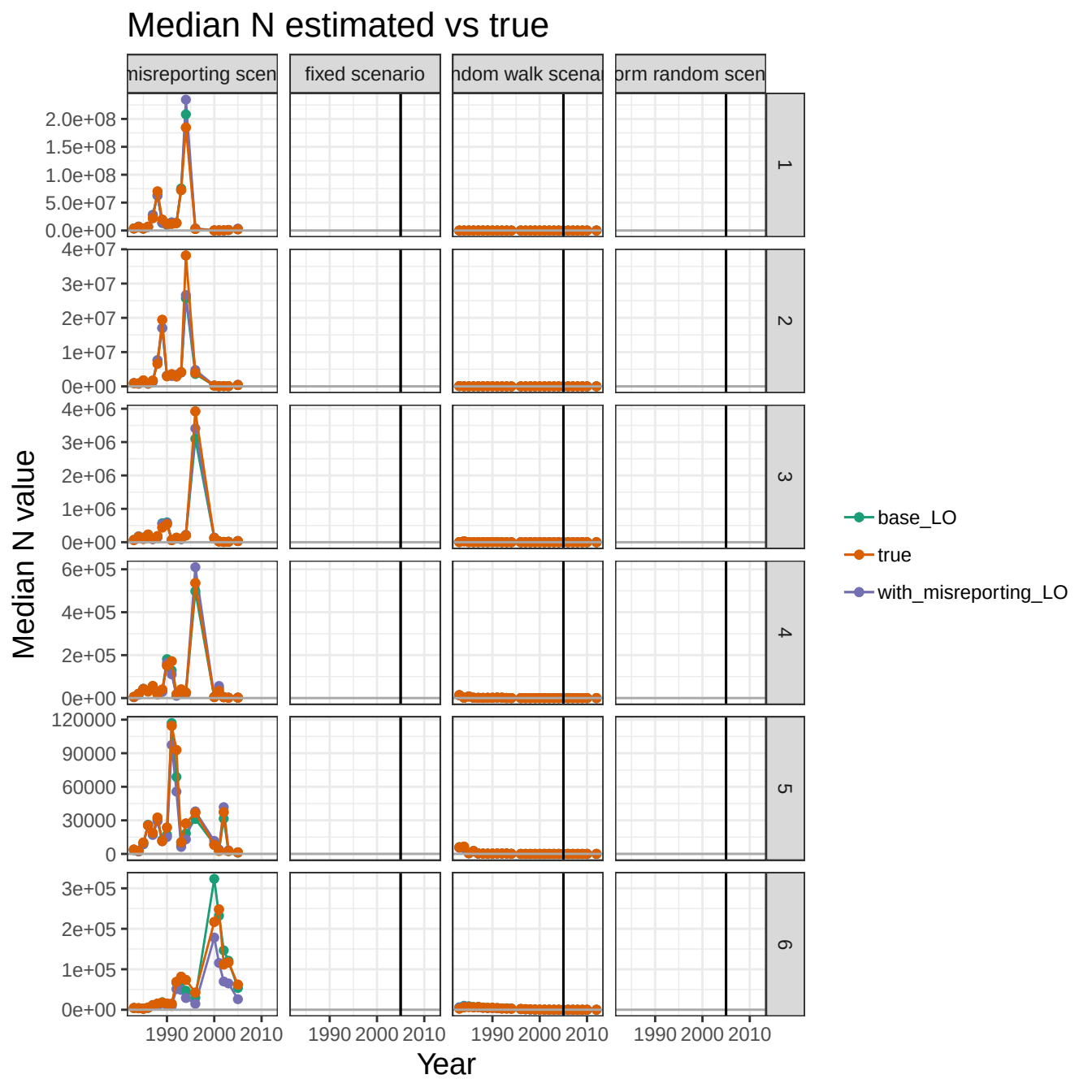

Estimation error in leave−out year
catch
F
N
ssb
no misreporting scenario
fixed scenario
random walk scenario
uniform random scenario
Median absolute percent error
Year
model
base_LO
with_misreporting_LO

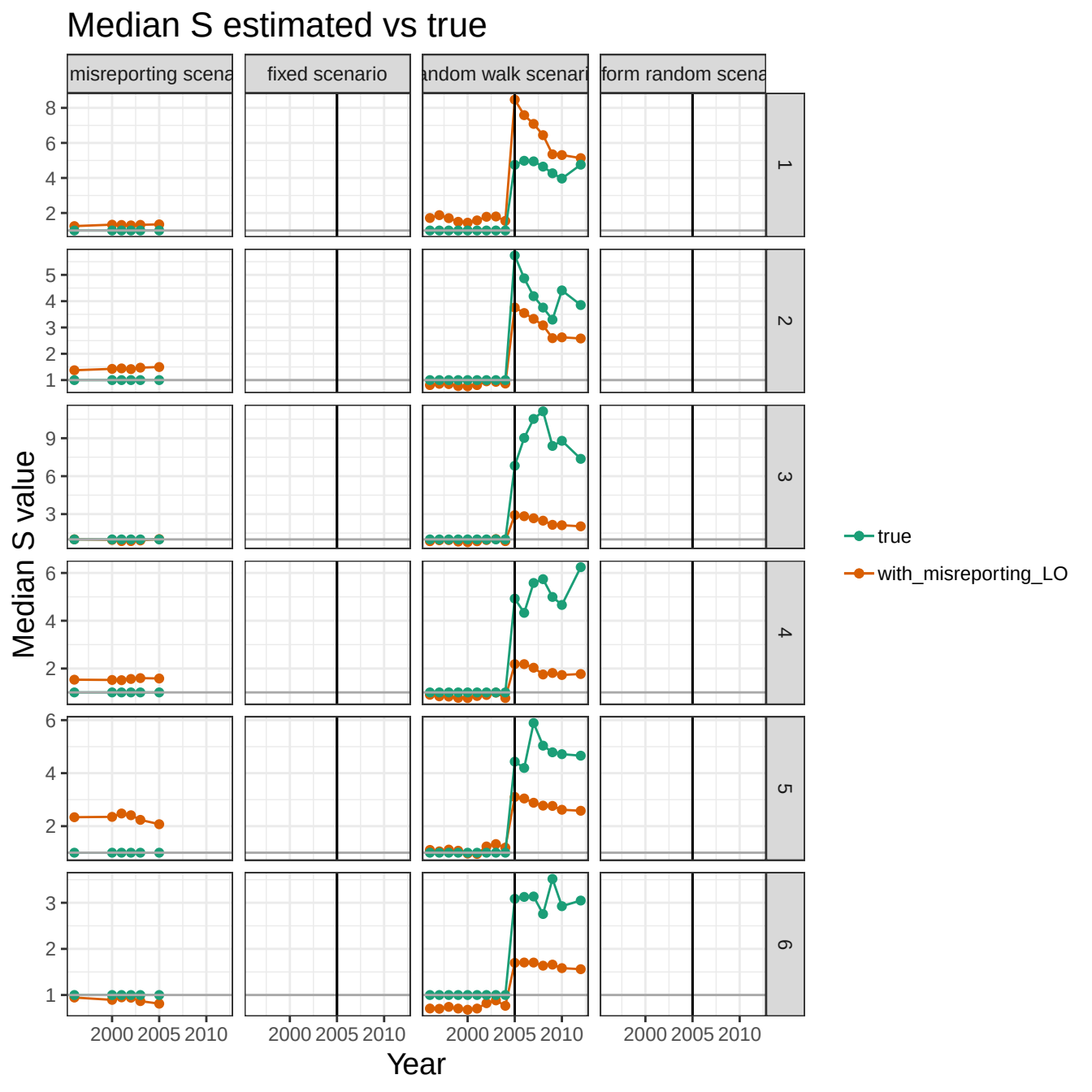

Estimation error in leave−out year
catch
F
N
ssb
no misreporting scenario
fixed scenario
random walk scenario
uniform random scenario
Median percent error (fit − true)
Year
1990 2000 2010
model
base_LO
with_misreporting_LO

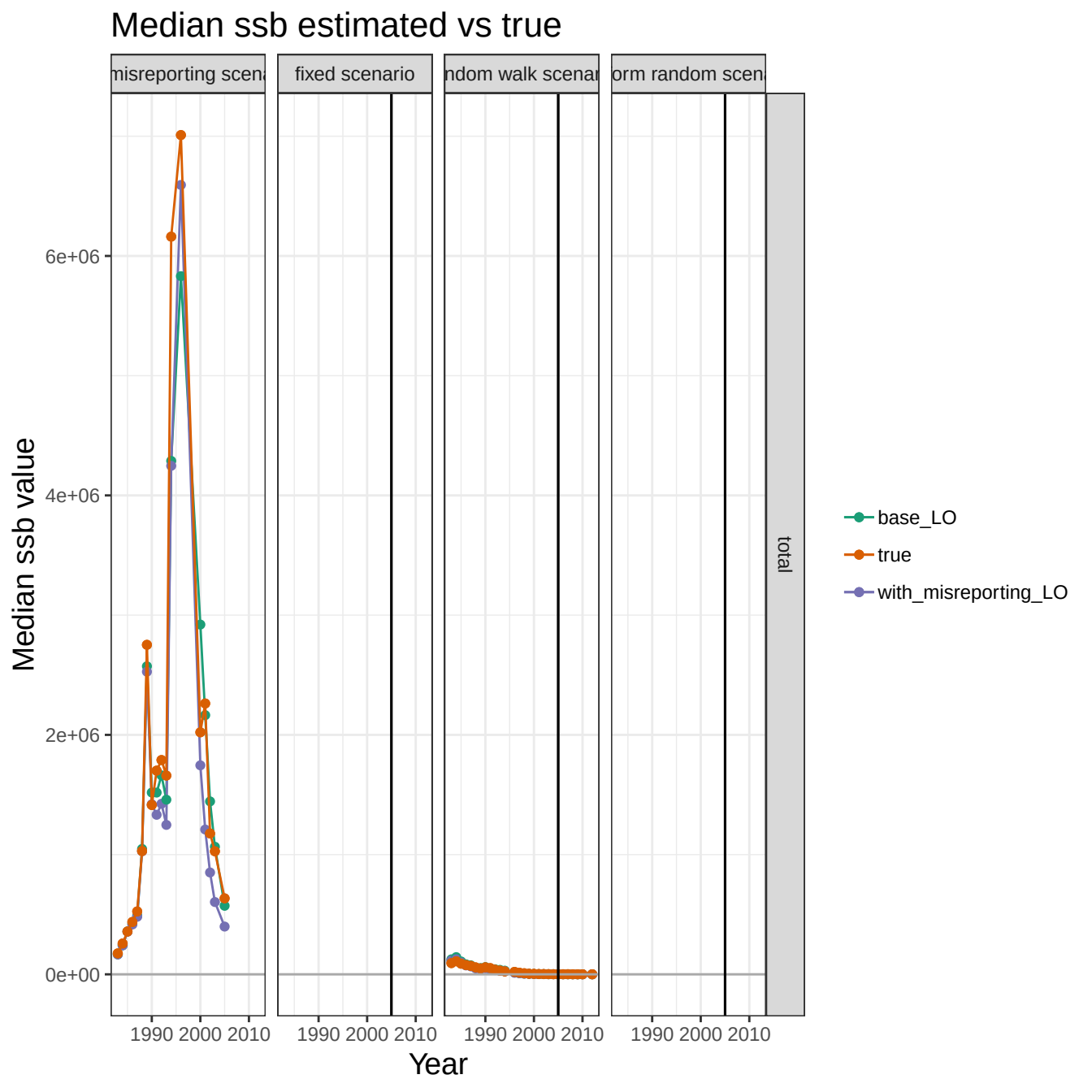

Median catch estimated vs true
misreporting scen
fixed scenario
ndom walk scena
orm random scen
total
Median catch value
2.5e+07
2.0e+07
1.5e+07
1.0e+07
5.0e+06
0.0e+00
1990 2000 2010
Year
base_LO
true
with_misreporting_LO

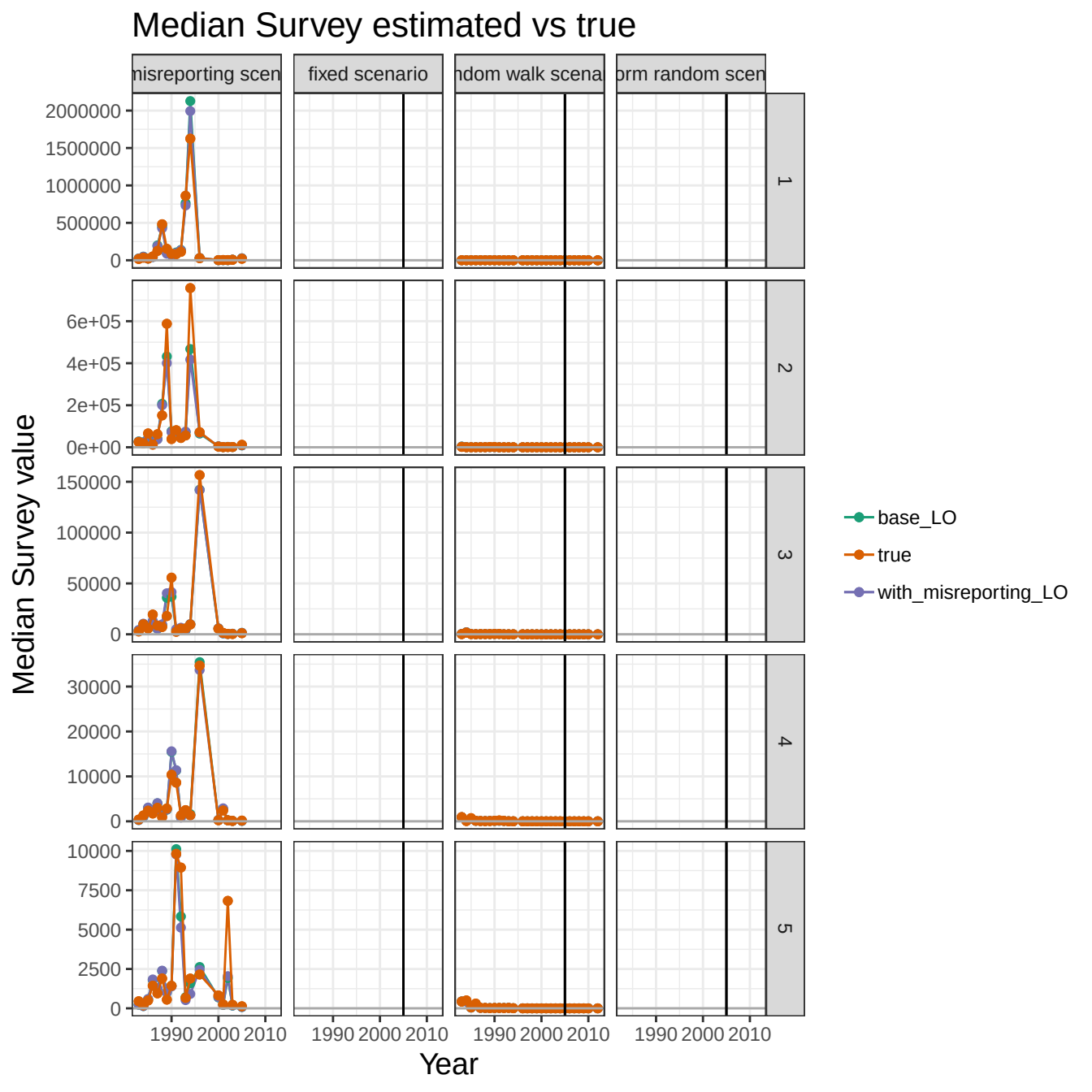

Median catch_observed estimated vs true
misreporting scen
fixed scenario
ndom walk scenar
orm random scen
total
Median catch_observed value
2.0e+07
1.5e+07
1.0e+07
5.0e+06
0.0e+00
1990 2000 2010
Year
base_LO
true
with_misreporting_LO


Median F estimated vs true
misreporting scena
fixed scenario
ndom walk scenar
form random scena
1
2
3
4
5
1.00
0.75
0.50
0.25
3
2
1
1.5
1.2
0.9
0.6
0.3
2.0
1.5
1.0
0.5
1.00
0.75
0.50
0.25
0.00
1990 2000 2010
Median F value
Year
base_LO
true
with_misreporting_LO


Median N estimated vs true
misreporting scen
fixed scenario
ndom walk scena
orm random scen
1
2
3
4
5
6
2.0e+08
1.5e+08
1.0e+08
5.0e+07
0.0e+00
4e+07
3e+07
2e+07
1e+07
0e+00
4e+06
3e+06
2e+06
1e+06
0e+00
6e+05
4e+05
2e+05
0e+00
120000
90000
60000
30000
0
3e+05
2e+05
1e+05
0e+00
1990 2000 2010
Median N value
Year
base_LO
true
with_misreporting_LO


Median S estimated vs true
misreporting scena
fixed scenario
ndom walk scenari
form random scena
1
2
3
4
5
6
Median S value
Year
2000 2005 2010
true
with_misreporting_LO


Median ssb estimated vs true
misreporting scena
fixed scenario
ndom walk scenar
orm random scena
total
Median ssb value
6e+06
4e+06
2e+06
0e+00
1990 2000 2010
Year
base_LO
true
with_misreporting_LO


Median Survey estimated vs true
misreporting scen
fixed scenario
ndom walk scena
orm random scen
1
2
3
4
5
2000000
1500000
1000000
500000
0
6e+05
4e+05
2e+05
0e+00
150000
100000
50000
30000
20000
10000
7500
5000
2500
1990 2000 2010
Median Survey value
Year
base_LO
true
with_misreporting_LO