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Appendix C - Calibration summary plots for single- and dual-media parameter optimization matrices for F- and H-areas

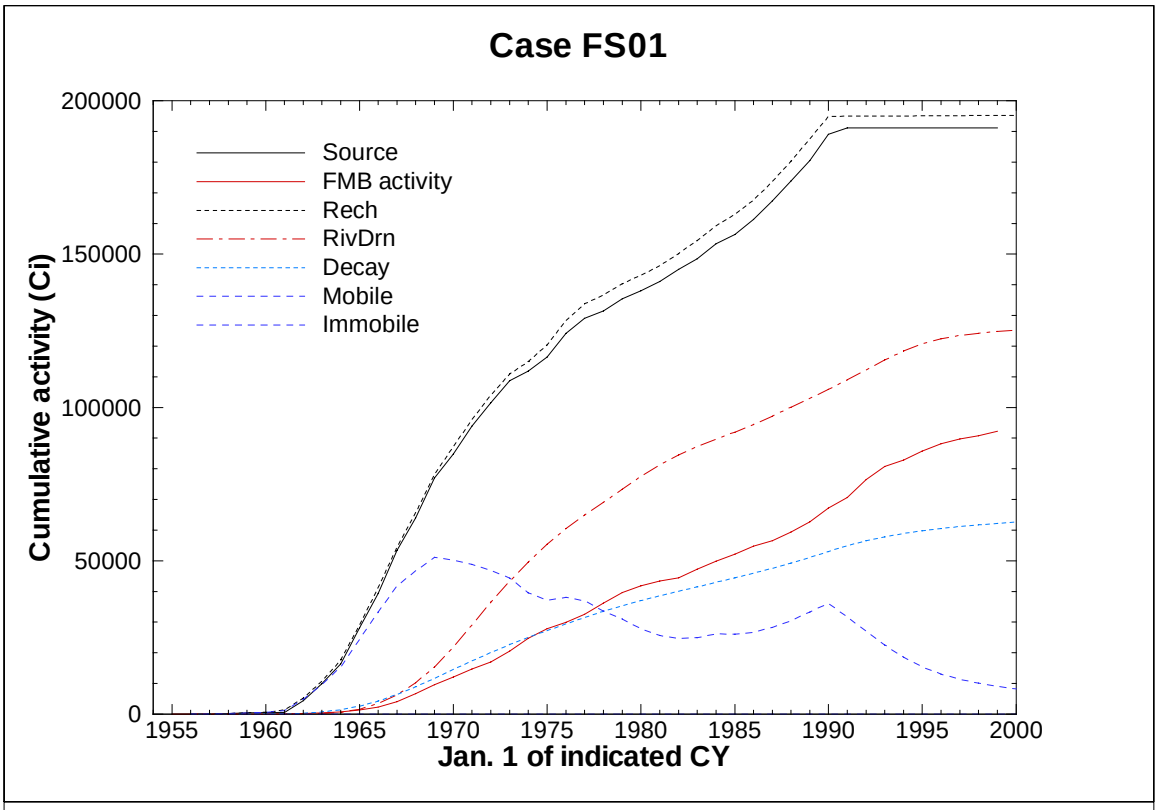
Optimal values of single- and dual-media transport parameters for the F- and H-area seepage basins were empirically determined by assessing model performance against source term and monitoring data for the input matrices defined below. Calibration summary plots for each case are provided in the remainder of the appendix.

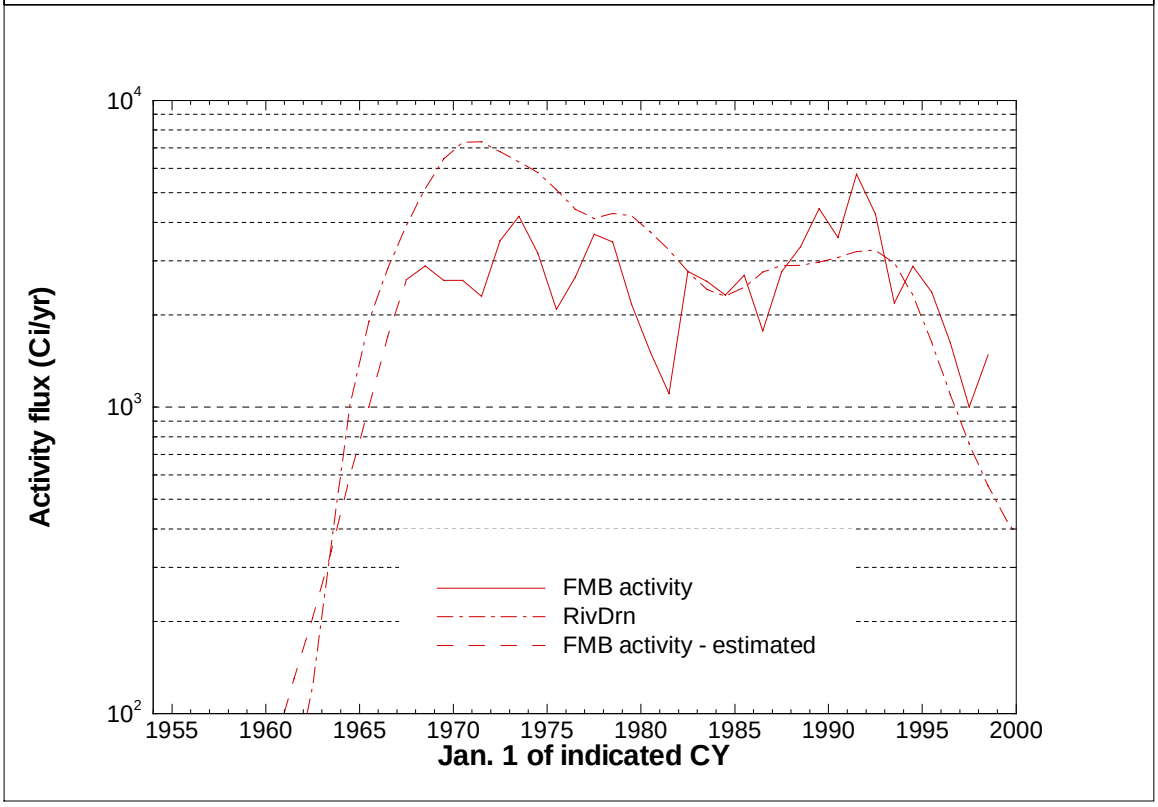
F-area single-medium cases		Effective porosity, θ_{eff} (unitless)				
		0.20	0.25	0.30	0.35	0.40
Dispersivity α_L (ft)	40	FS 1	FS 2	FS 3	FS 4	FS 5
	80	FS 6	FS 7	FS 8	FS 9	FS 10
	160	FS 11	FS 12	FS 13	FS 14	FS 15
	320	FS 16	FS 17	FS 18	FS 19	FS 20
	640	FS 21	FS 22	FS 23	FS 24	FS 25

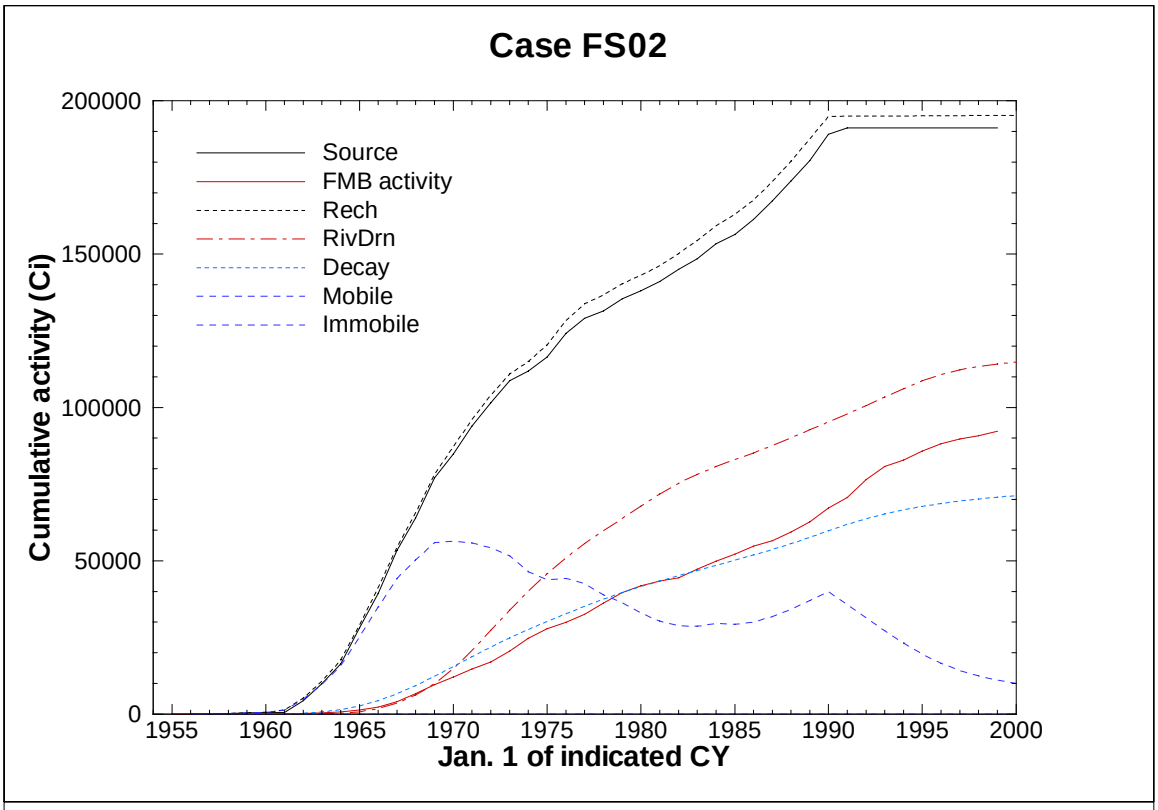
H-area single-medium cases		Effective porosity, θ_{eff} (unitless)				
		0.20	0.25	0.30	0.35	0.40
Dispersivity α_L (ft)	12.5	HS 1	HS 2	HS 3	HS 4	HS 5
	25	HS 6	HS 7	HS 8	HS 9	HS 10
	50	HS 11	HS 12	HS 13	HS 14	HS 15
	100	HS 16	HS 17	HS 18	HS 19	HS 20
	200	HS 21	HS 22	HS 23	HS 24	HS 25

F-area dual-media cases		Mobile porosity, θ_m (unitless)				
		0.1	0.1414	0.2	0.2828	0.4
Mass ζ (d^{-1}) transfer coefficient	2.5E-05	FD 1	FD 2	FD 3	FD 4	FD 5
	5.0E-05	FD 6	FD 7	FD 8	FD 9	FD 10
	1.0E-04	FD 11	FD 12	FD 13	FD 14	FD 15
	2.0E-04	FD 16	FD 17	FD 18	FD 19	FD 20
	4.0E-04	FD 21	FD 22	FD 23	FD 24	FD 25
		0.35	0.3086	0.25	0.167	0.05
		Immobile porosity, θ_{im} (unitless)				

H-area dual-media cases		Mobile porosity, θ_m (unitless)						
		0.025	0.0354	0.05	0.0707	0.1	0.1414	0.2
Mass ζ (d^{-1}) transfer coefficient	2.5E-05	HD 1	HD 2	HD 3	HD 4	HD 5	HD 26	HD 27
	5.0E-05	HD 6	HD 7	HD 8	HD 9	HD 10	HD 28	HD 29
	1.0E-04	HD 11	HD 12	HD 13	HD 14	HD 15	HD 30	HD 31
	2.0E-04	HD 16	HD 17	HD 18	HD 19	HD 20	HD 32	HD 33
	4.0E-04	HD 21	HD 22	HD 23	HD 24	HD 25	HD 34	HD 35
		0.425	0.4146	0.40	0.379	0.35	0.309	0.25
		Immobile porosity, θ_{im} (unitless)						


Case FS01
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated


Case FS02
Cumulative activity (Ci)
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100000
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0
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1960
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1970
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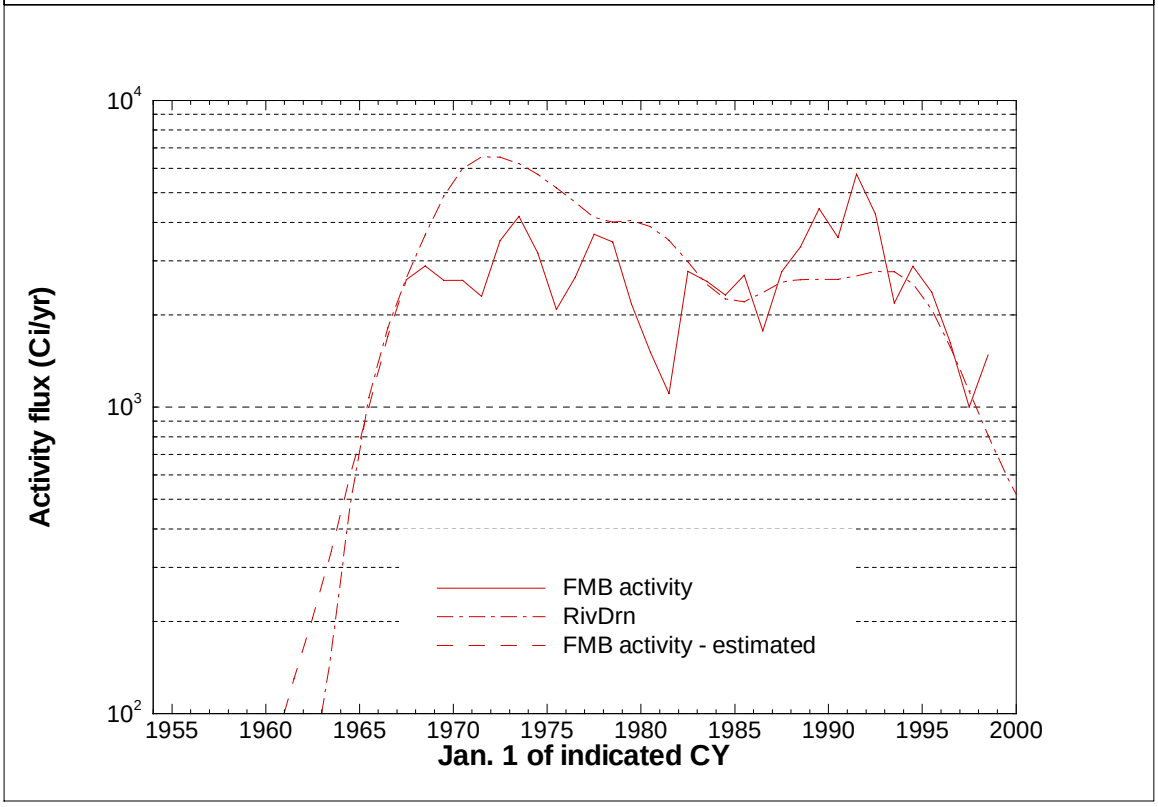
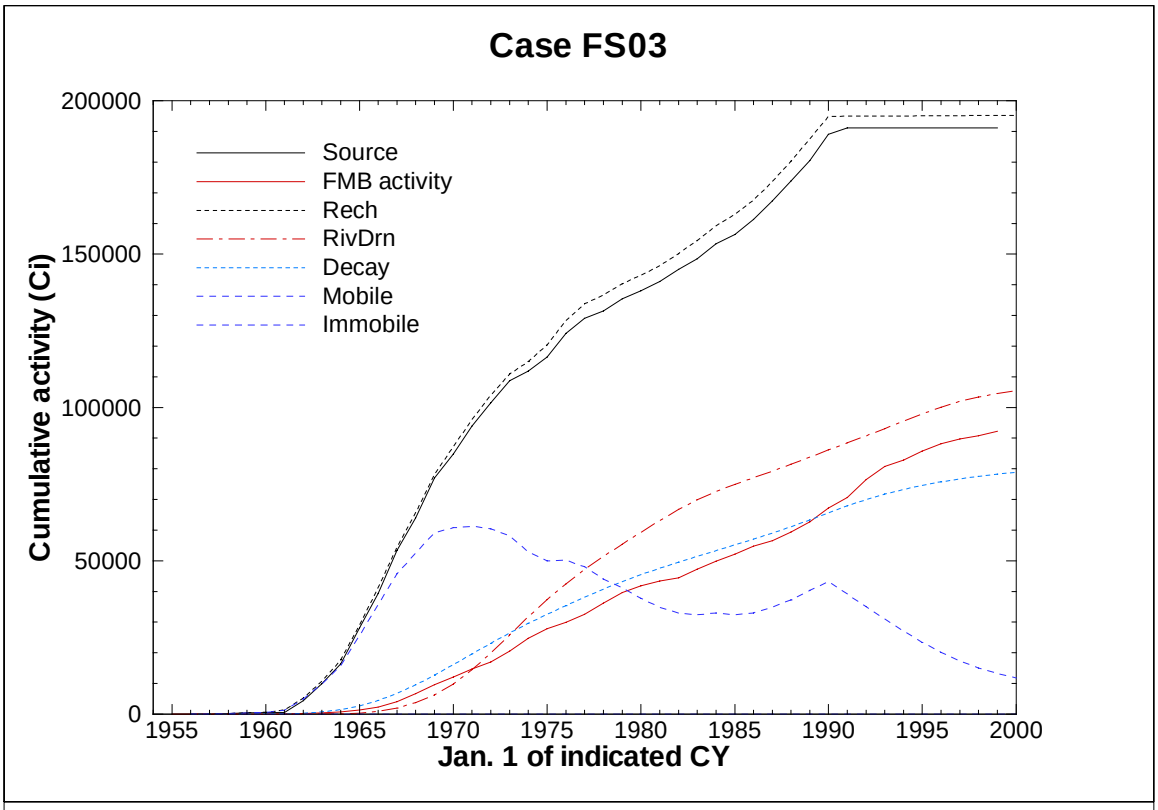
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated


Case FS03
Cumulative activity (Ci)
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100000
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1960
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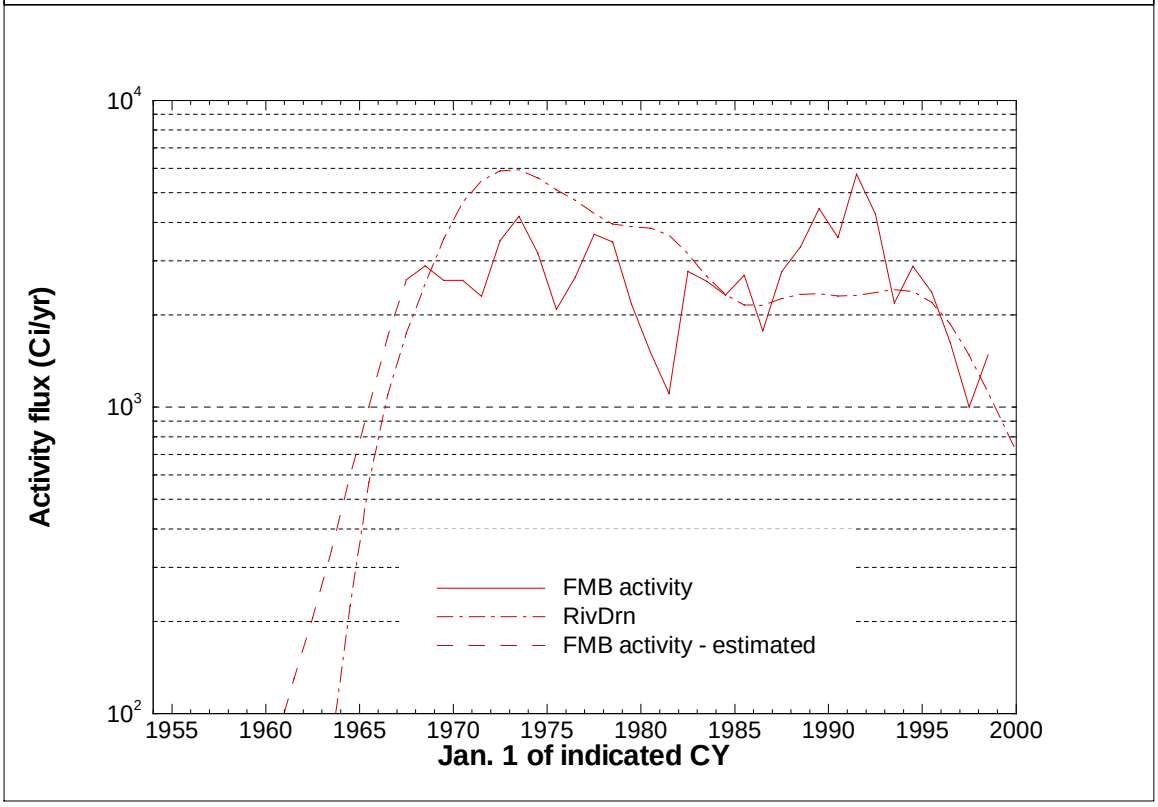
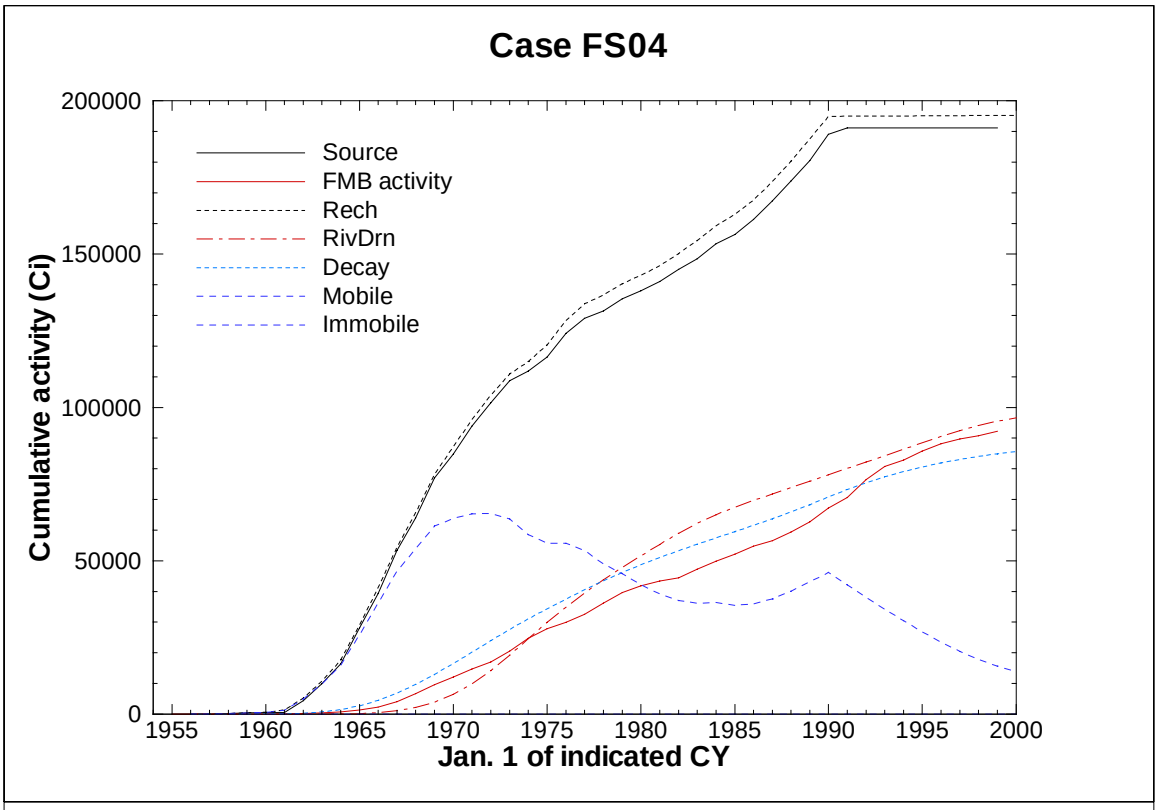
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated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Cumulative activity (Ci)
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150000
100000
50000
0
1955
1960
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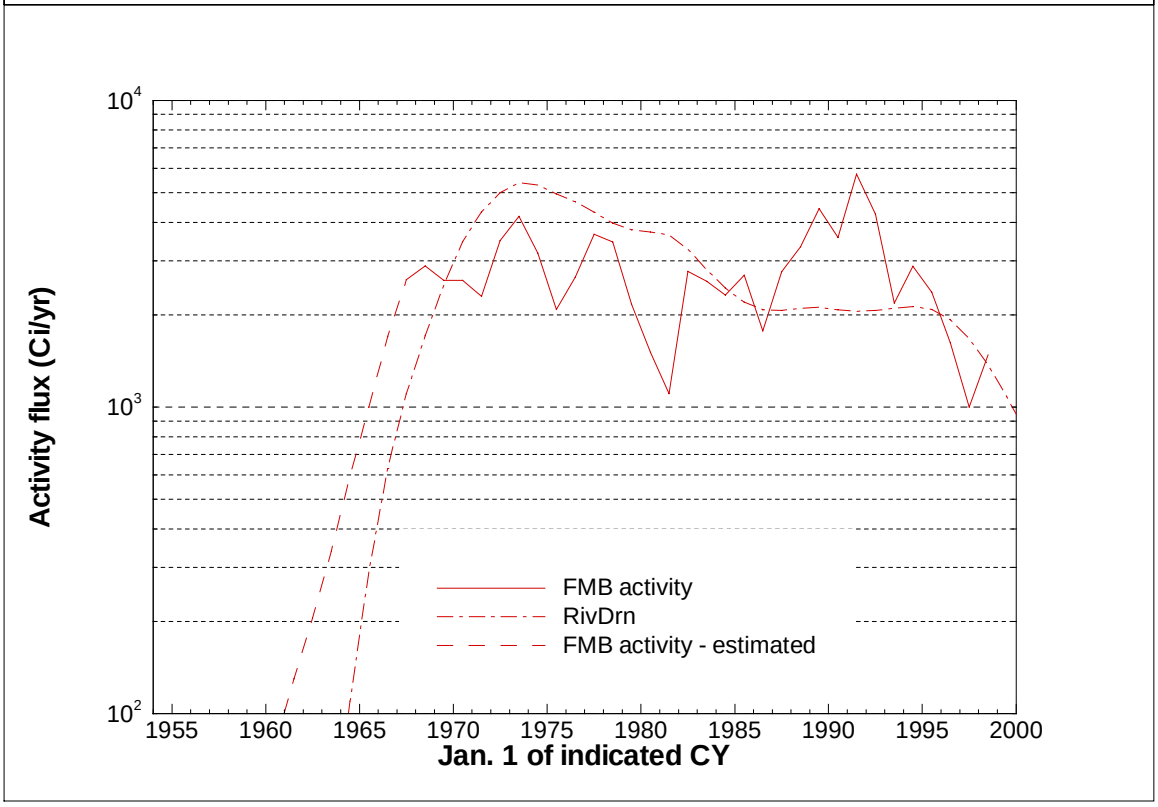
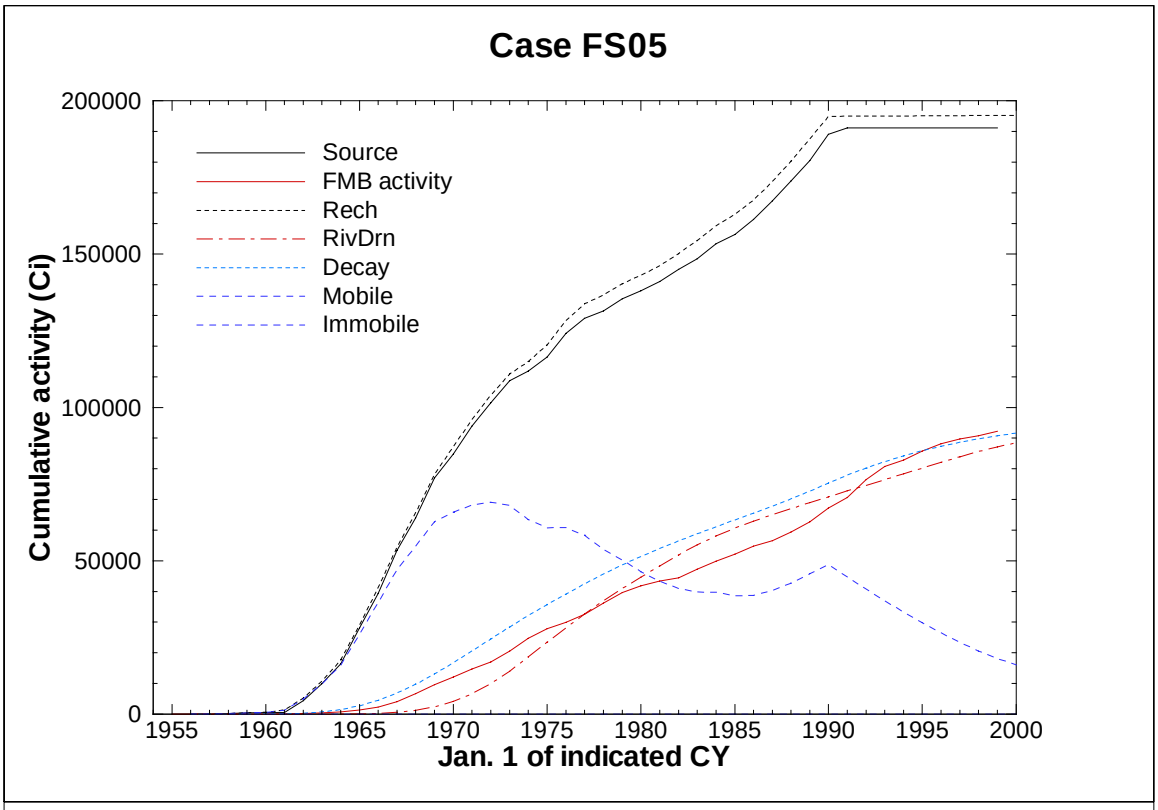
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated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Cumulative activity (Ci)
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100000
50000
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1960
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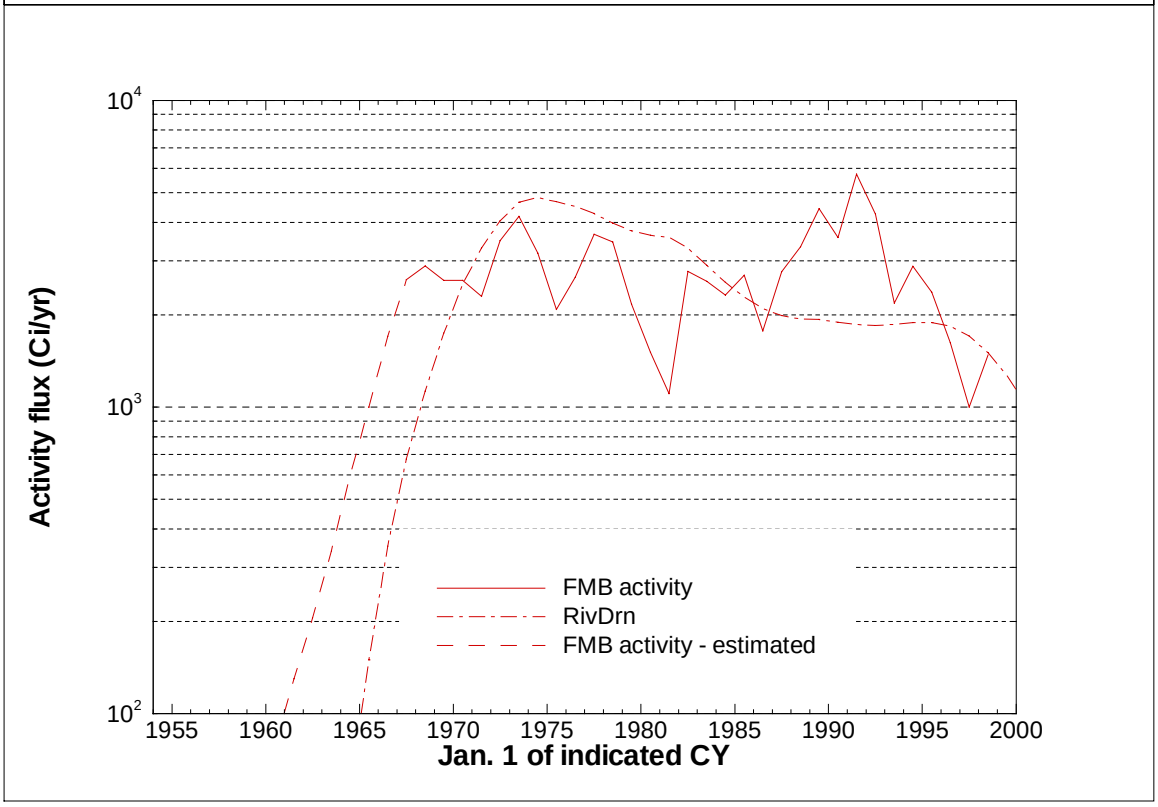
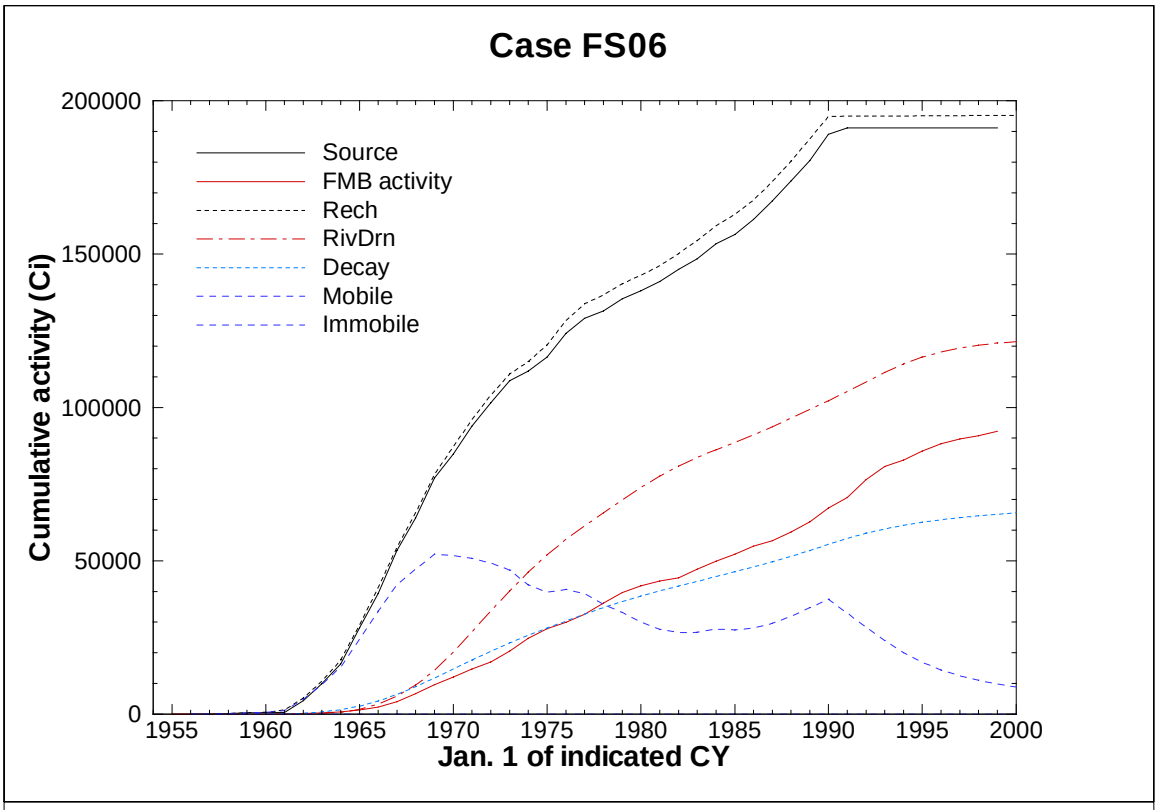
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated


Case FS06
Cumulative activity (Ci)
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100000
50000
0
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1960
1965
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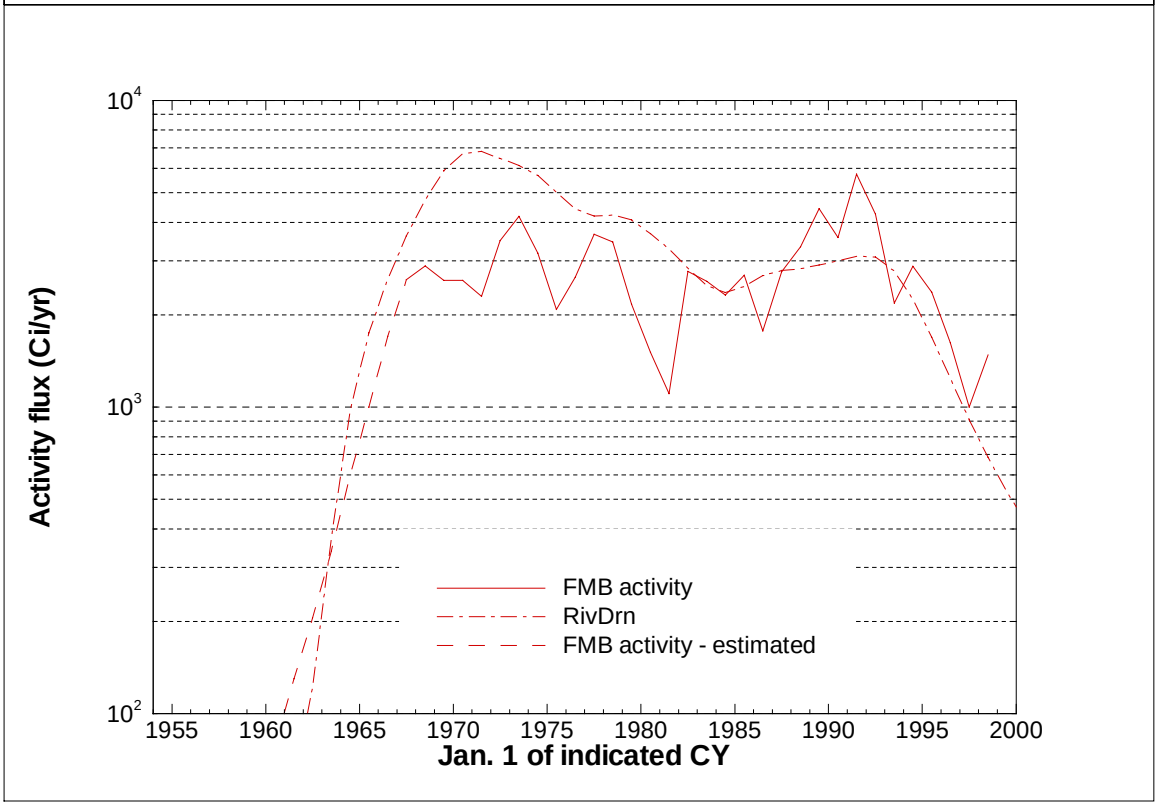
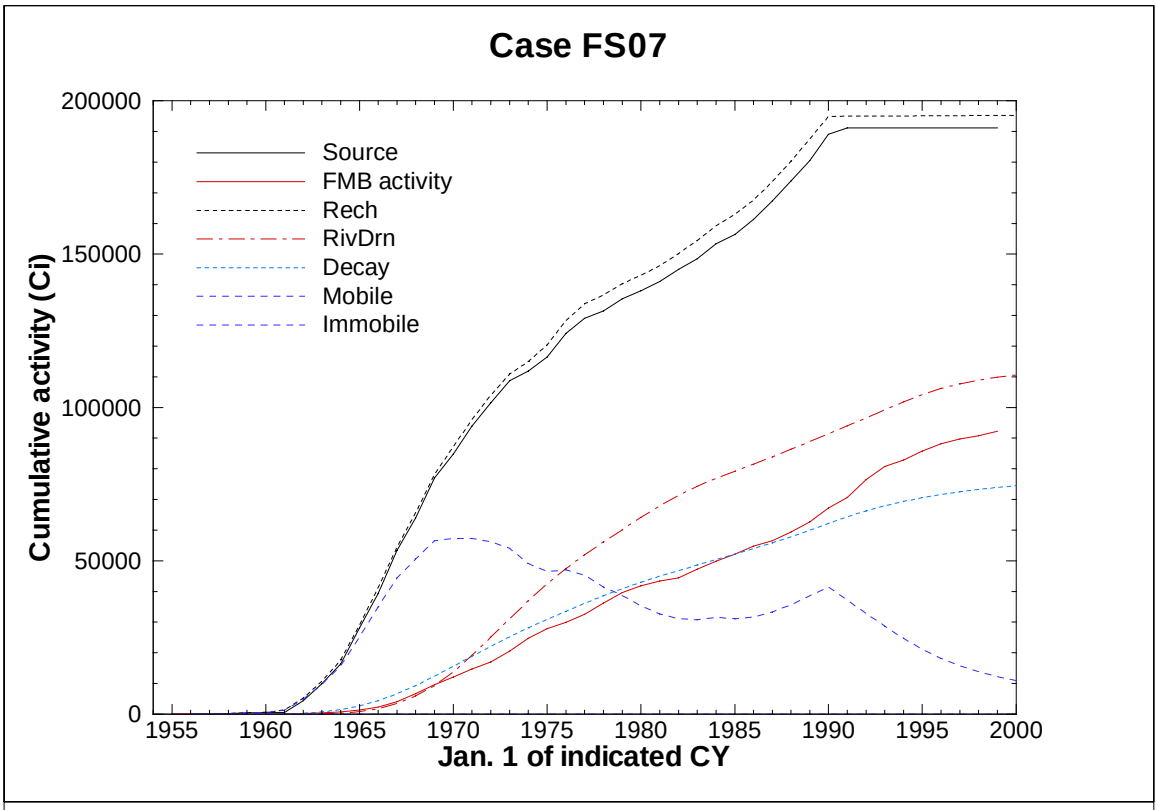
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated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1960
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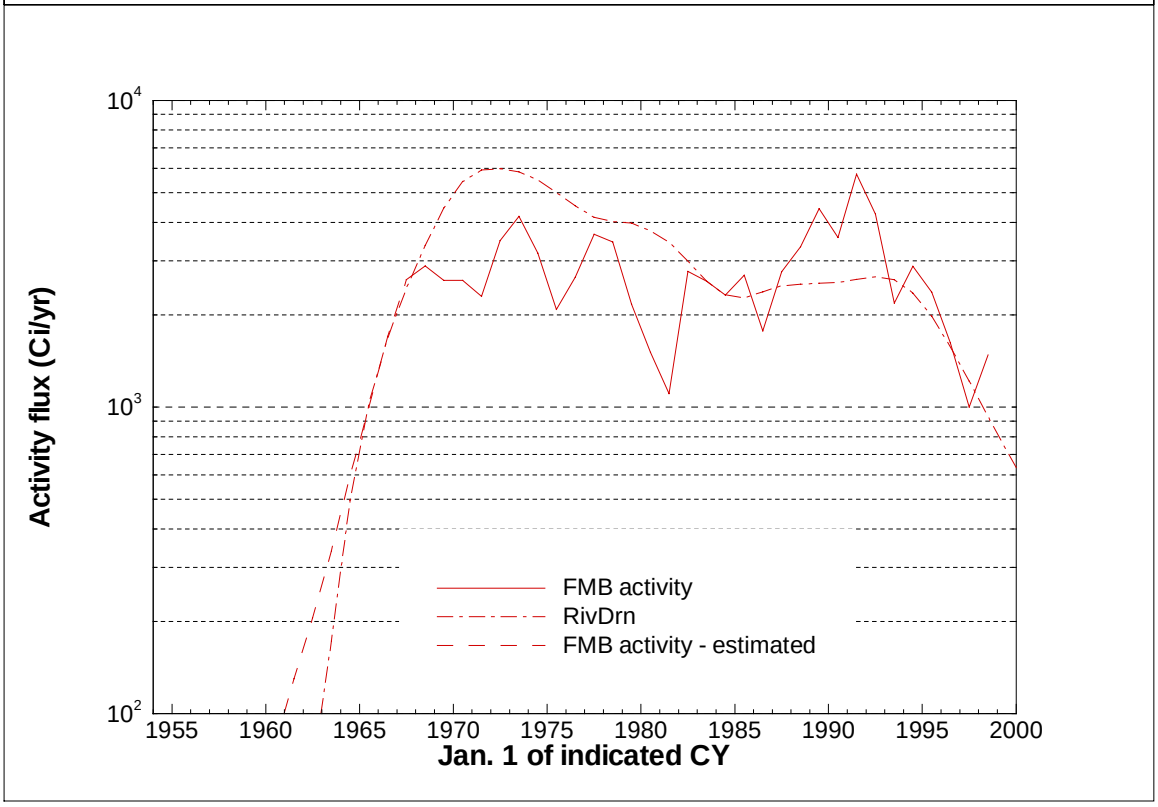
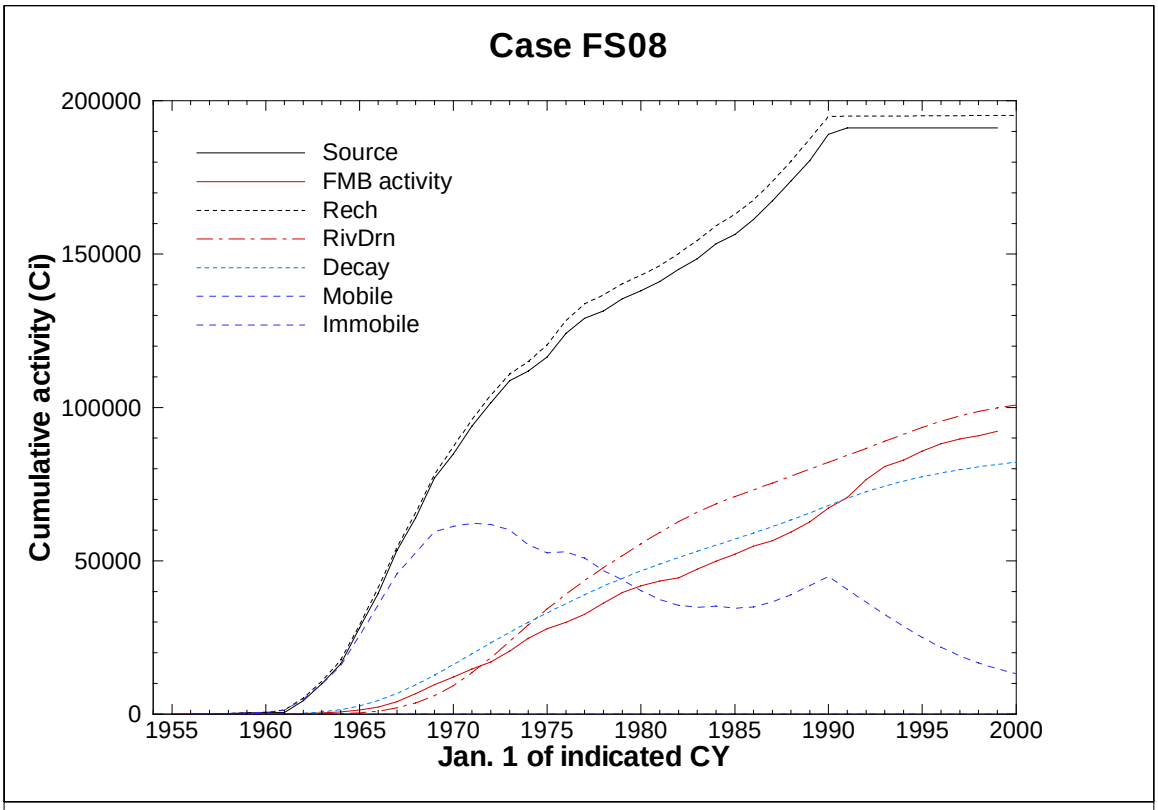
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated


Case FS08
Cumulative activity (Ci)
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100000
50000
0
1955
1960
1965
1970
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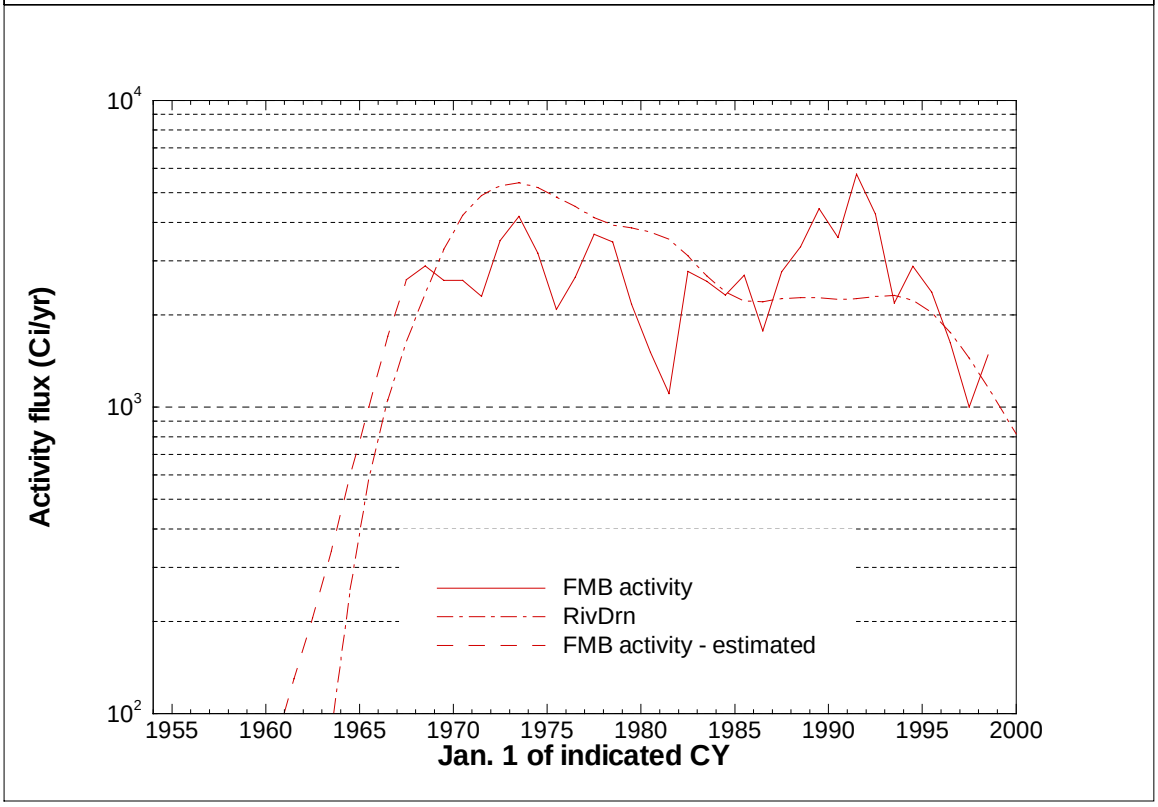
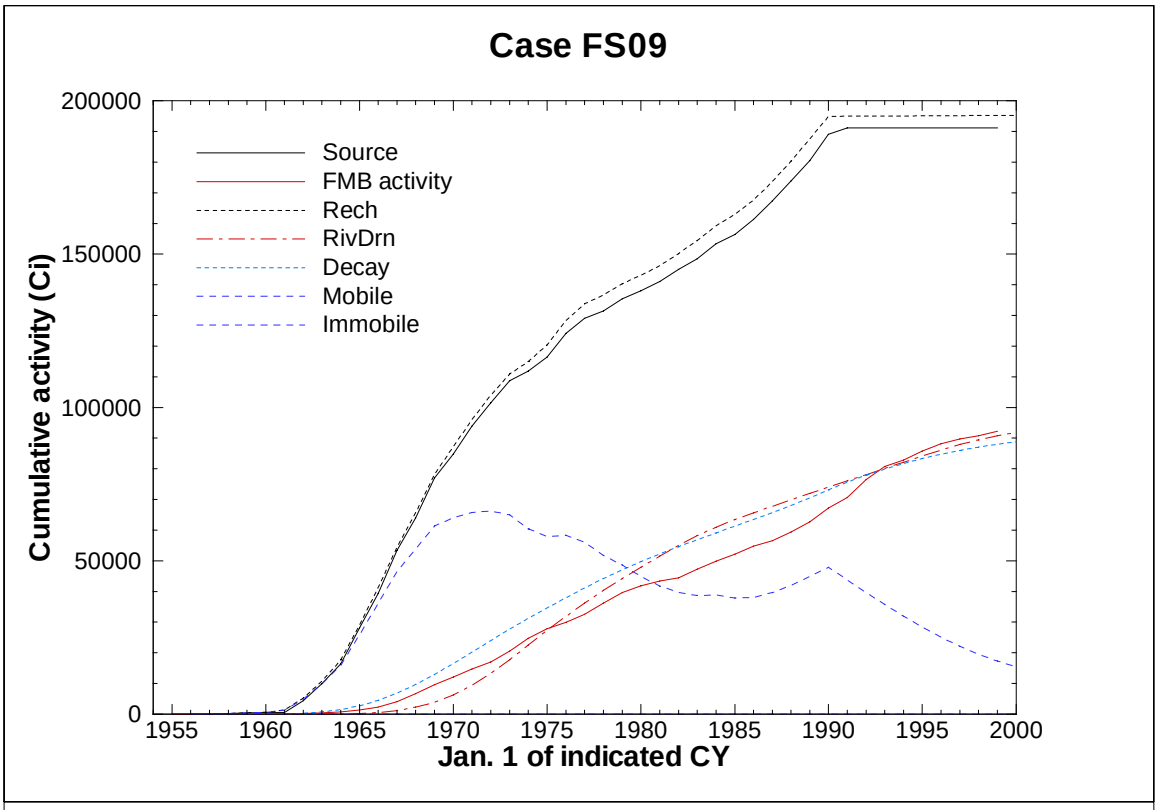
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated


Case FS09
Cumulative activity (Ci)
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50000
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1960
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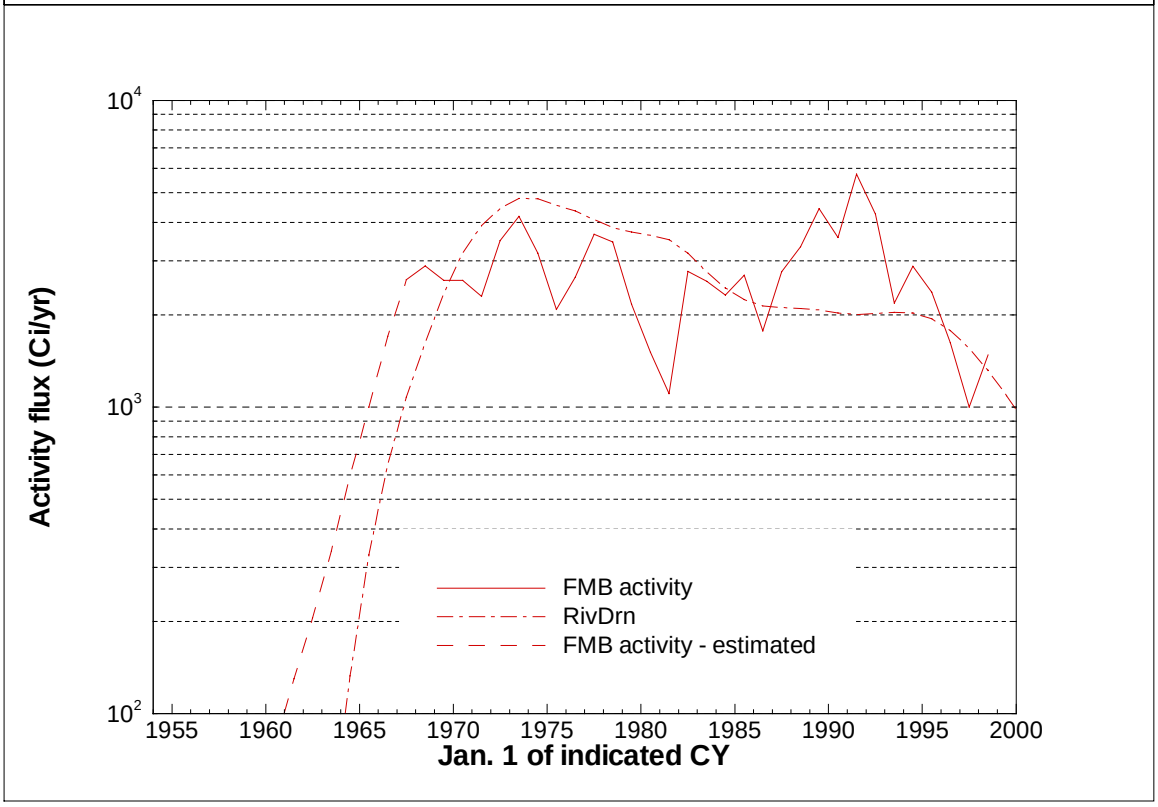
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
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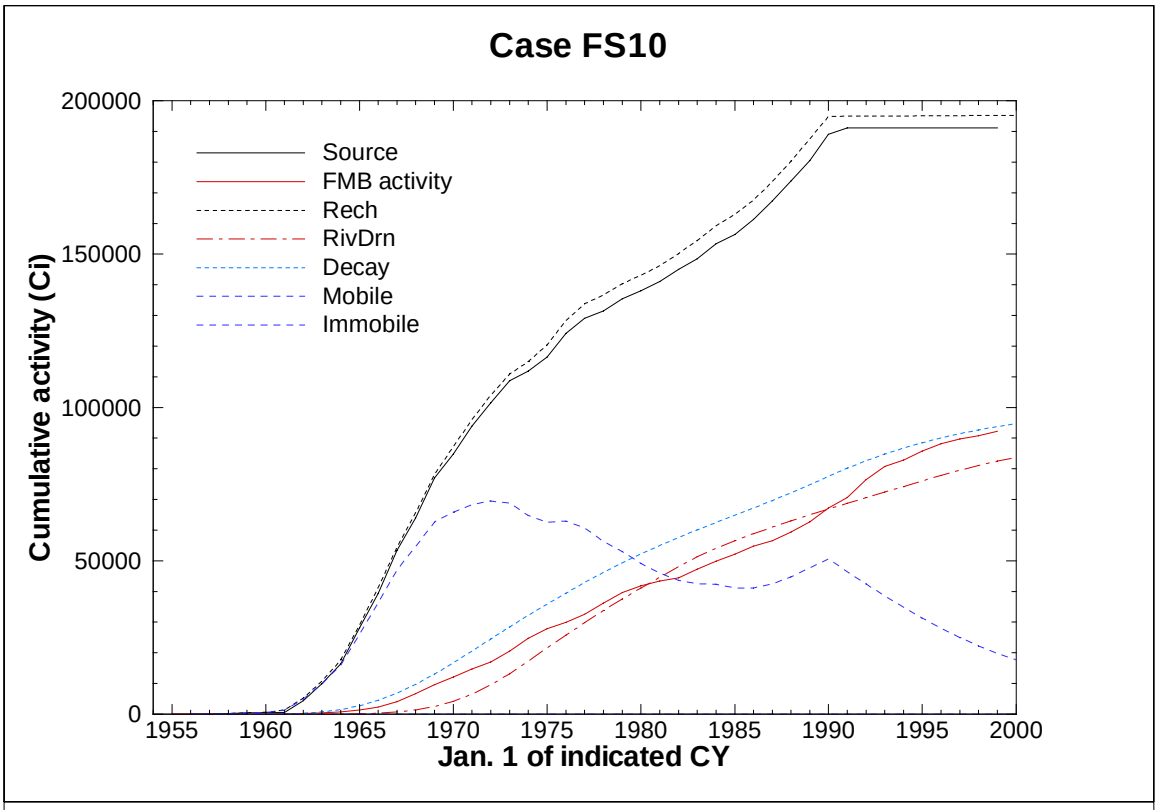
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated


Case FS10
Cumulative activity (Ci)
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50000
0
1955
1960
1965
1970
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1980
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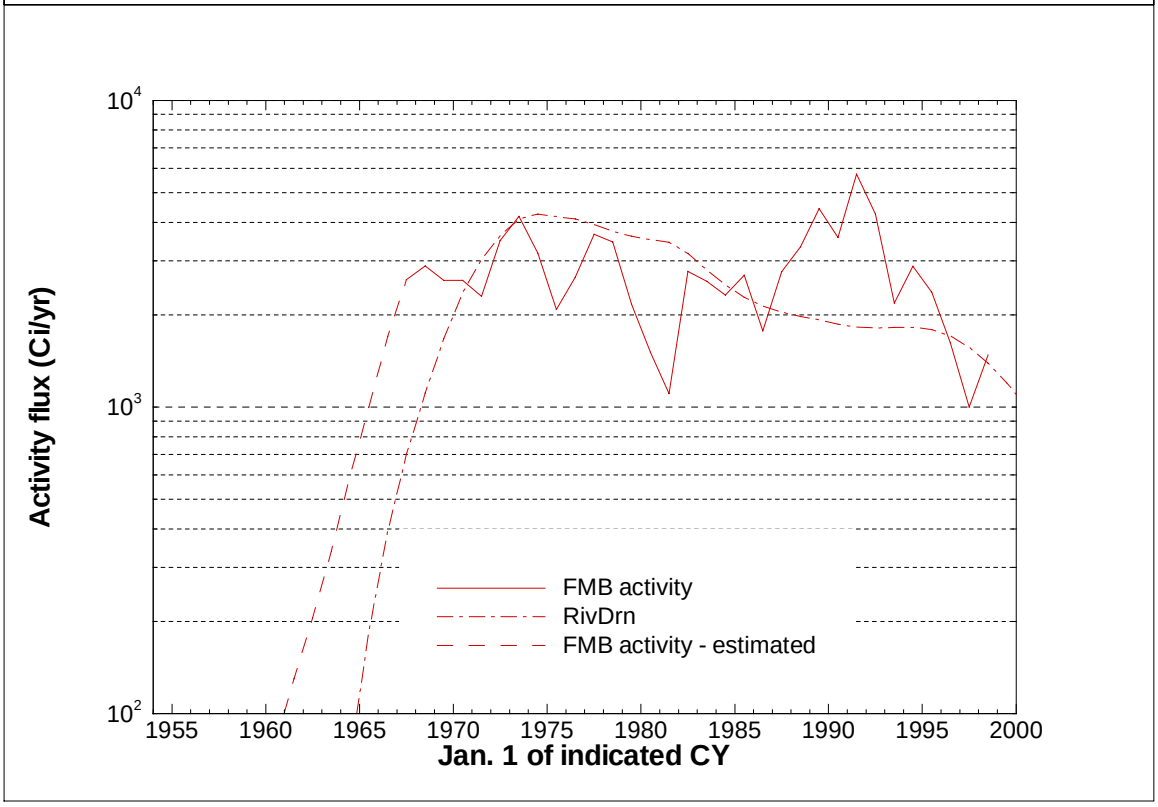
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
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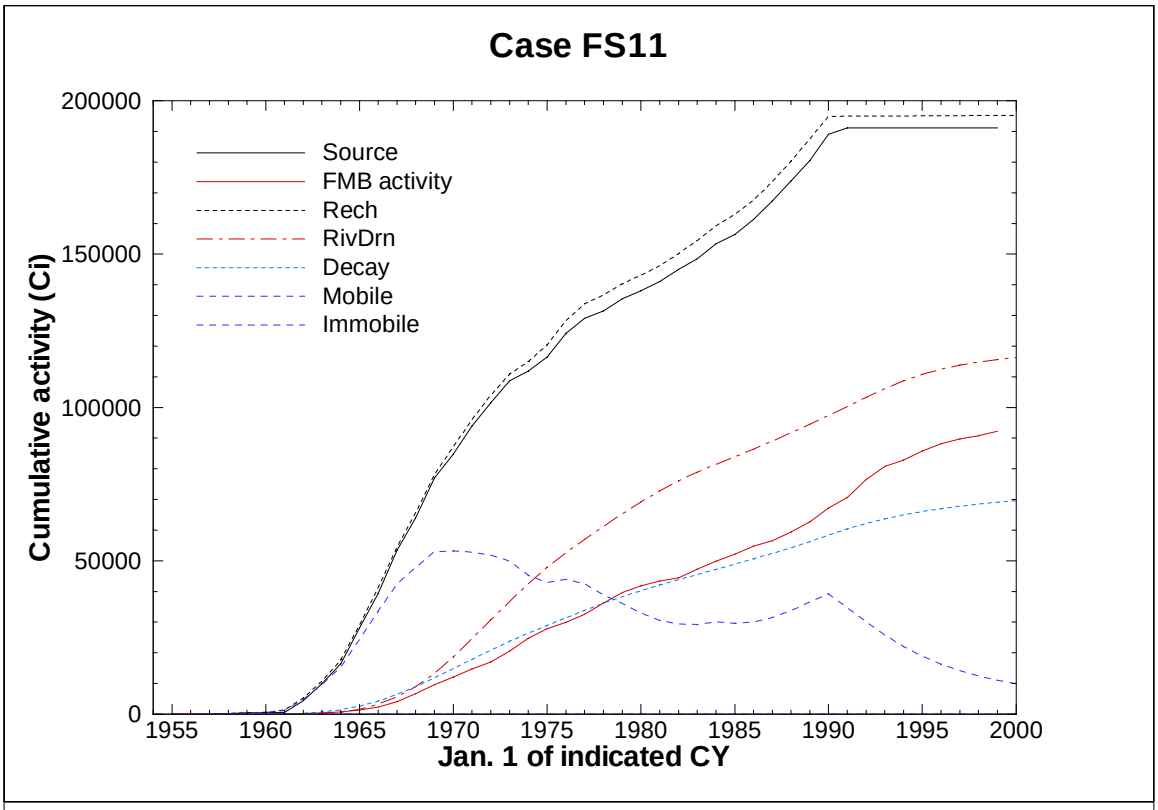
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated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Cumulative activity (Ci)
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100000
50000
0
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1960
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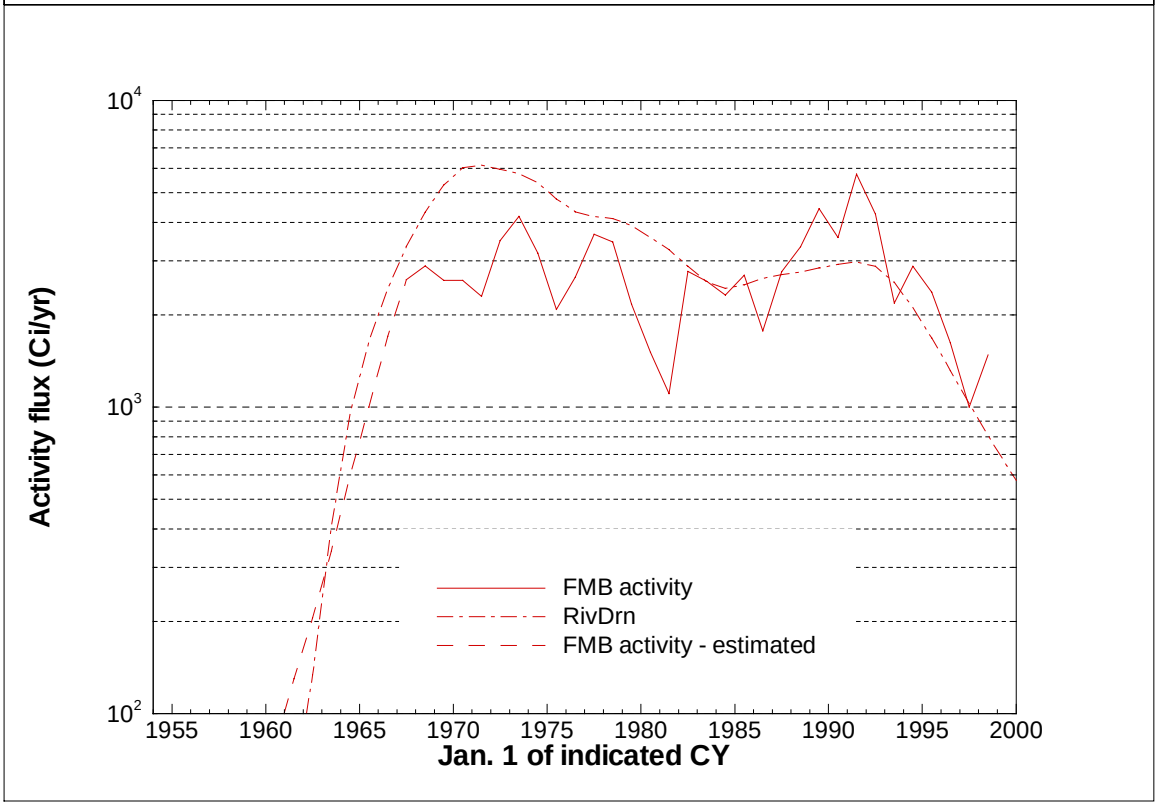
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
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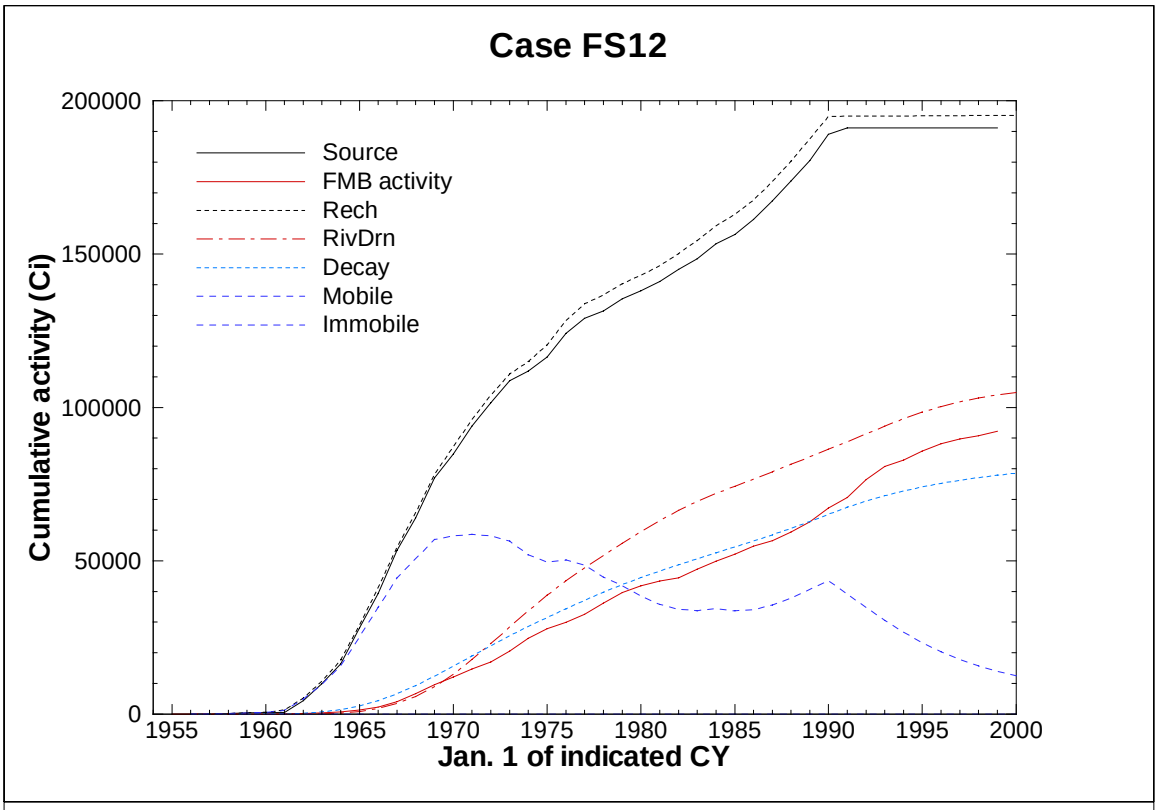
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated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Cumulative activity (Ci)
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50000
0
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1960
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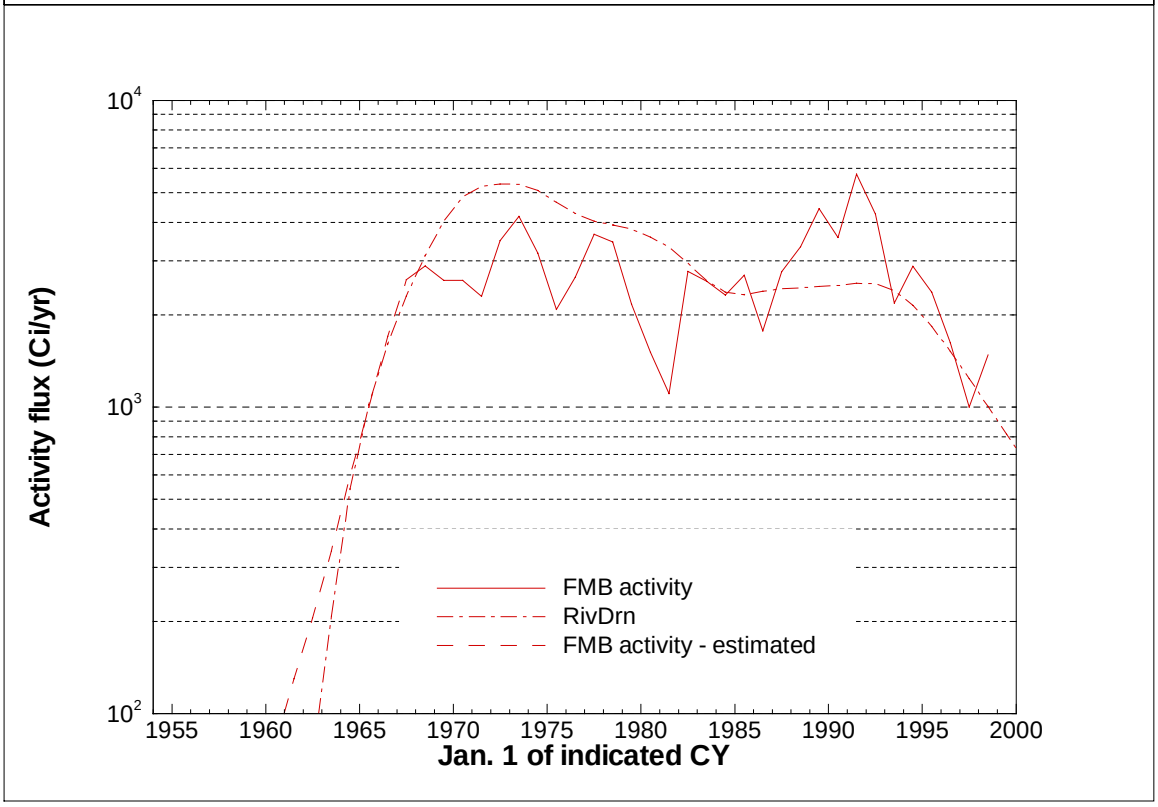
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile


Activity flux (Ci/yr)
10^4
10^3
10^2
1955
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1965
1970
1975
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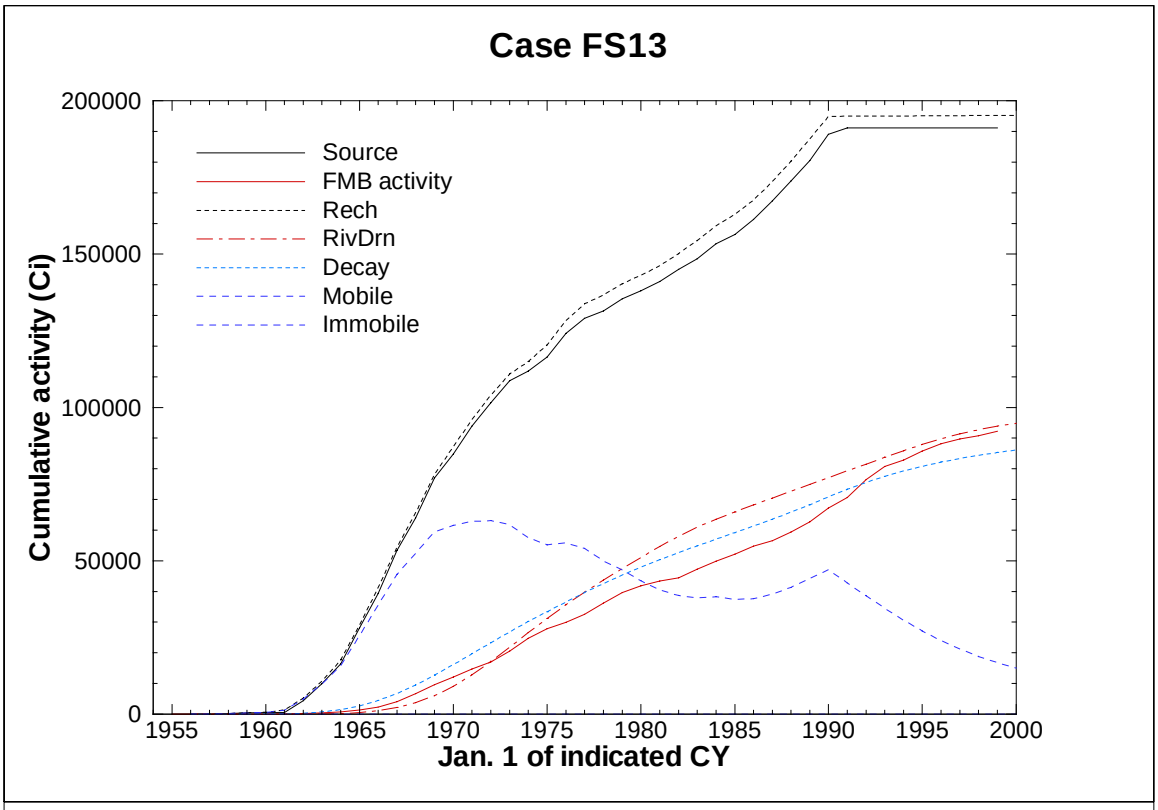
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated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Cumulative activity (Ci)
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100000
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1960
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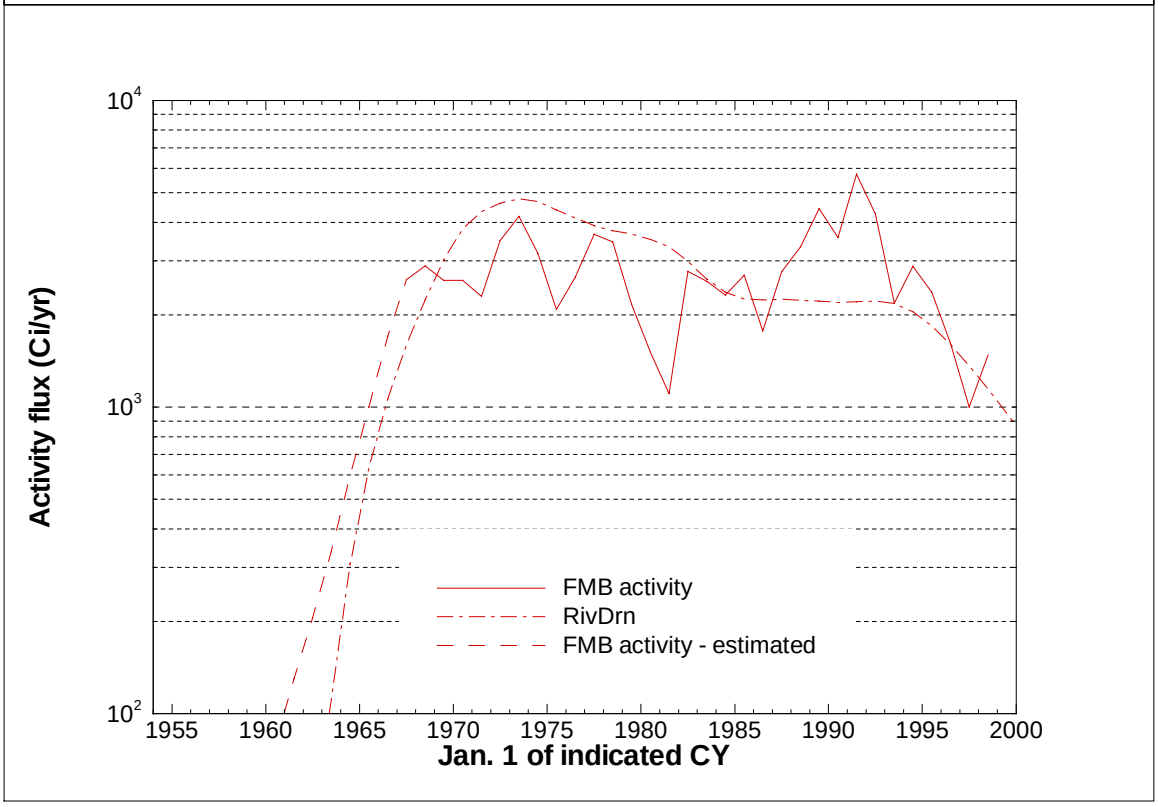
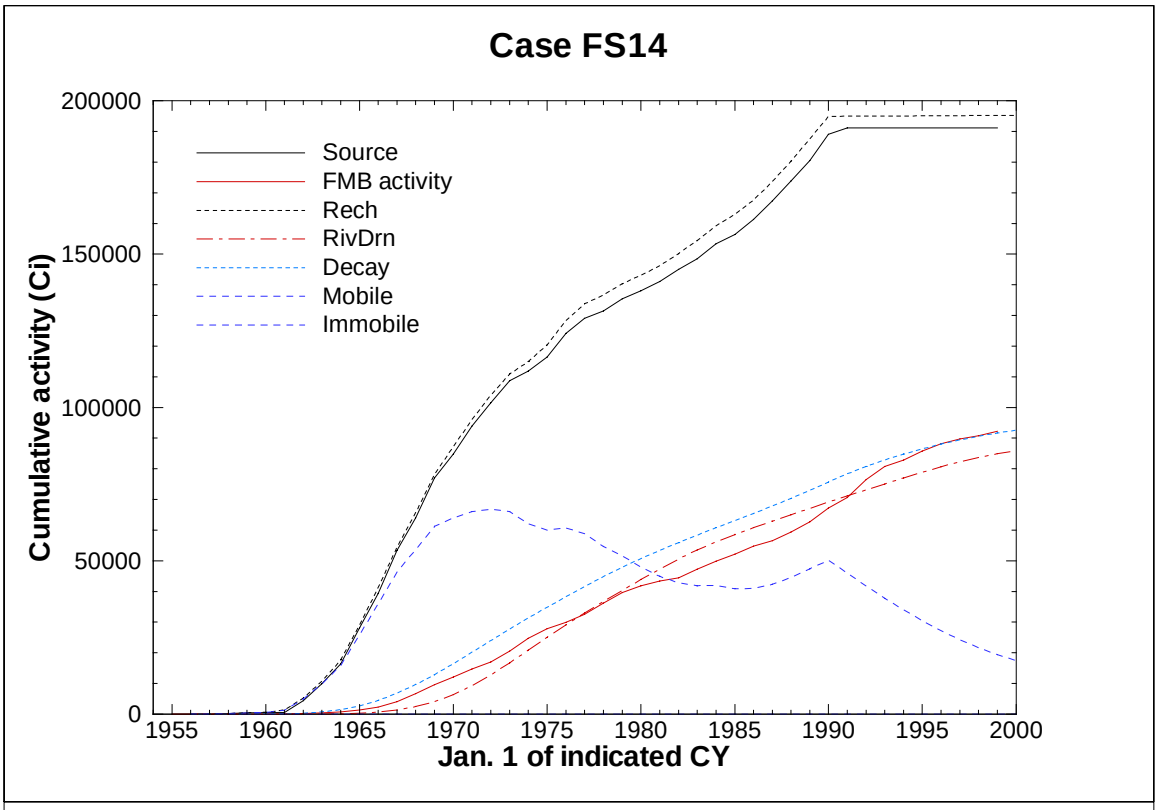
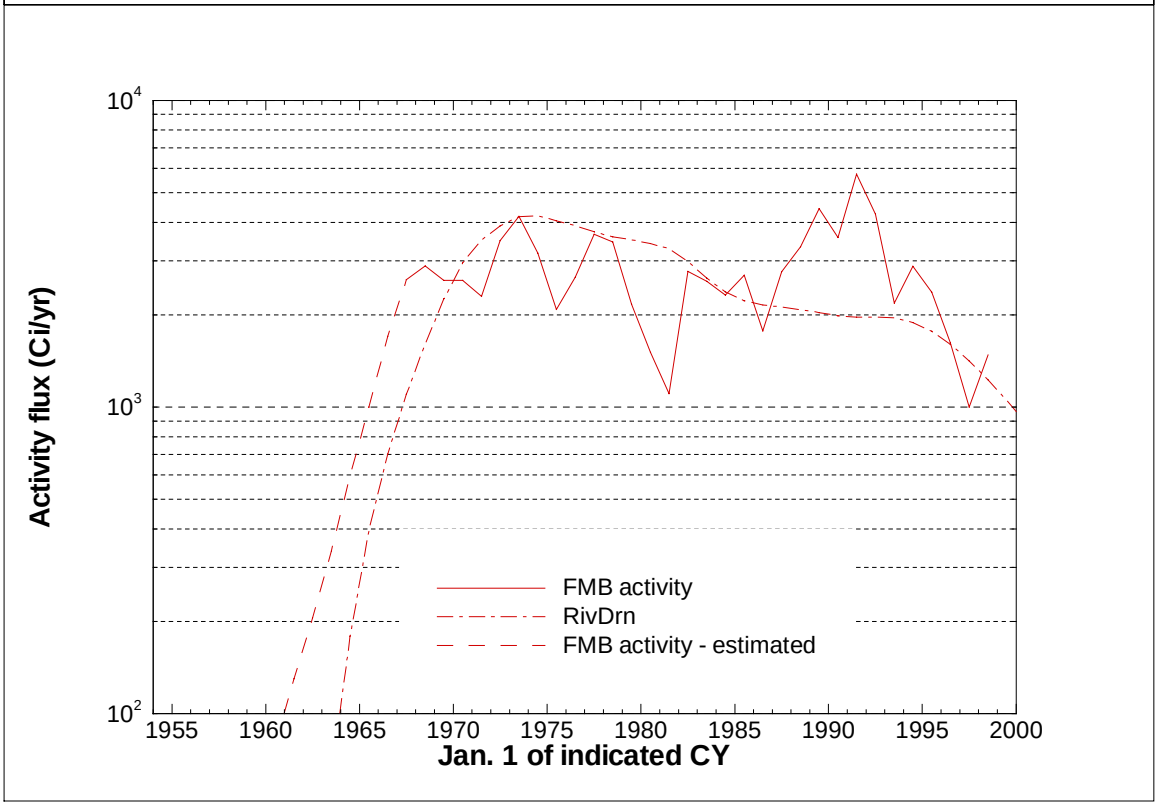
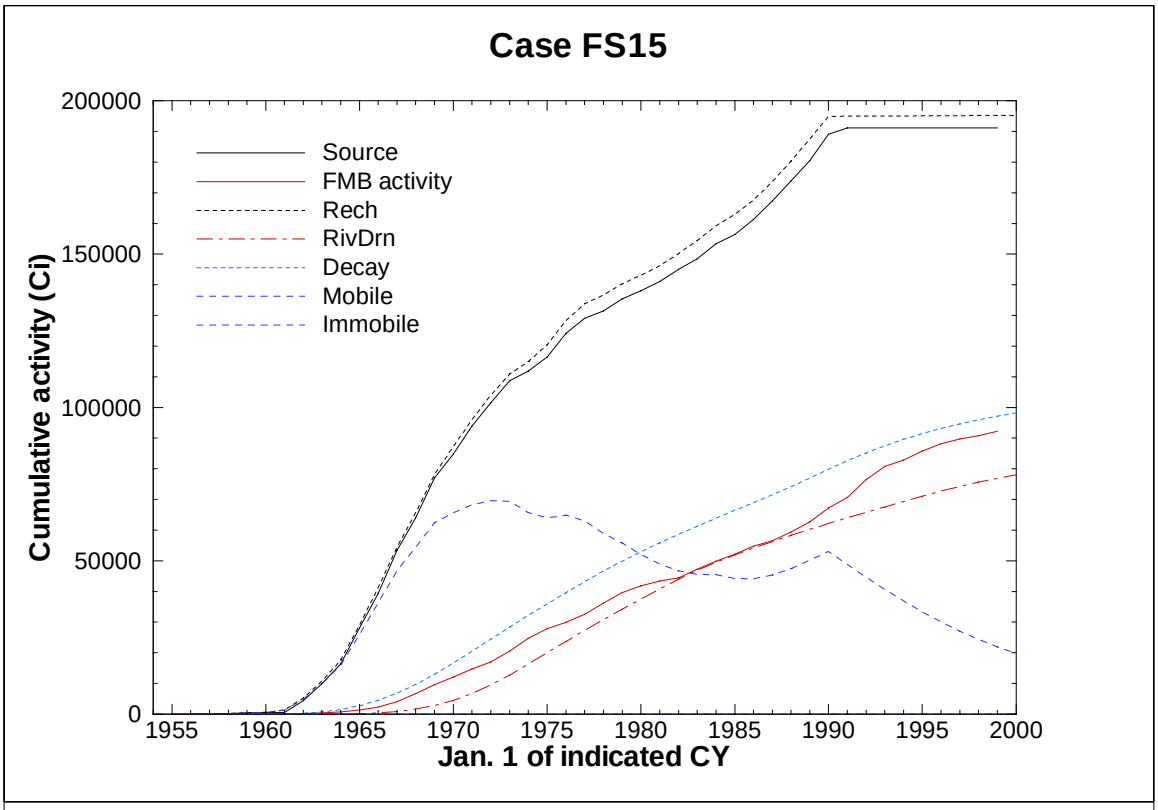
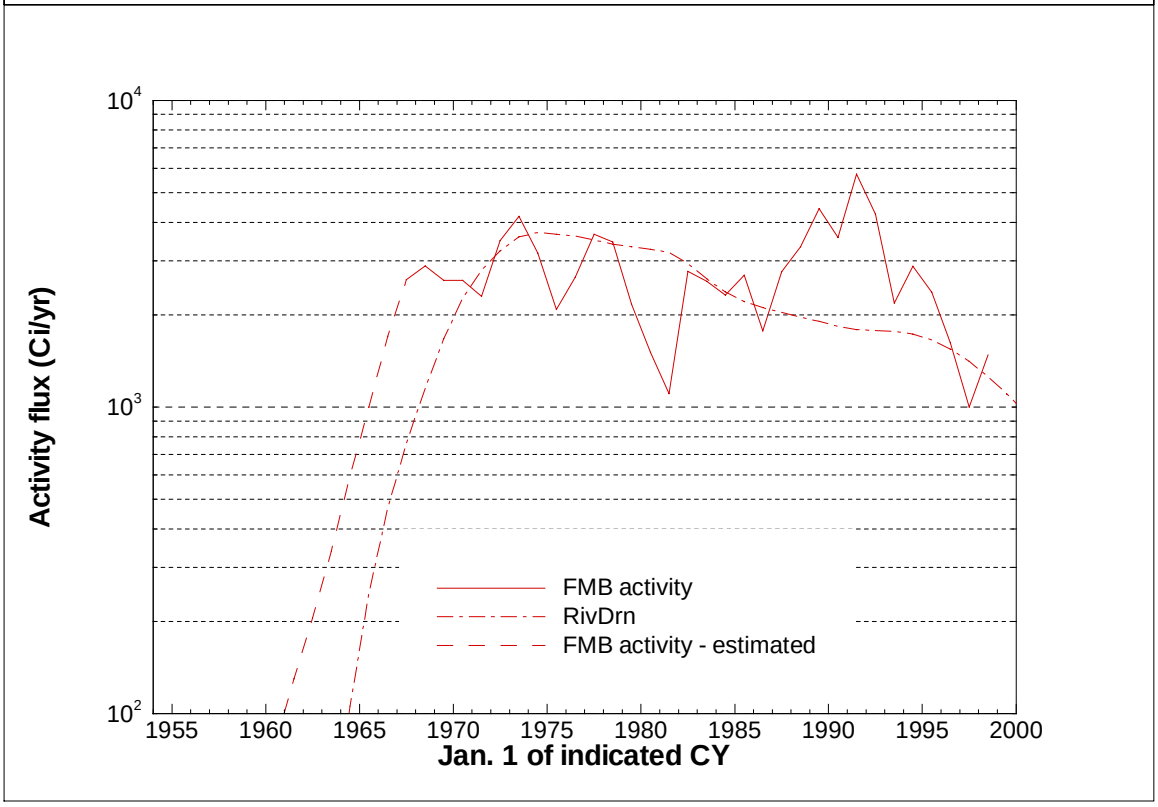
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

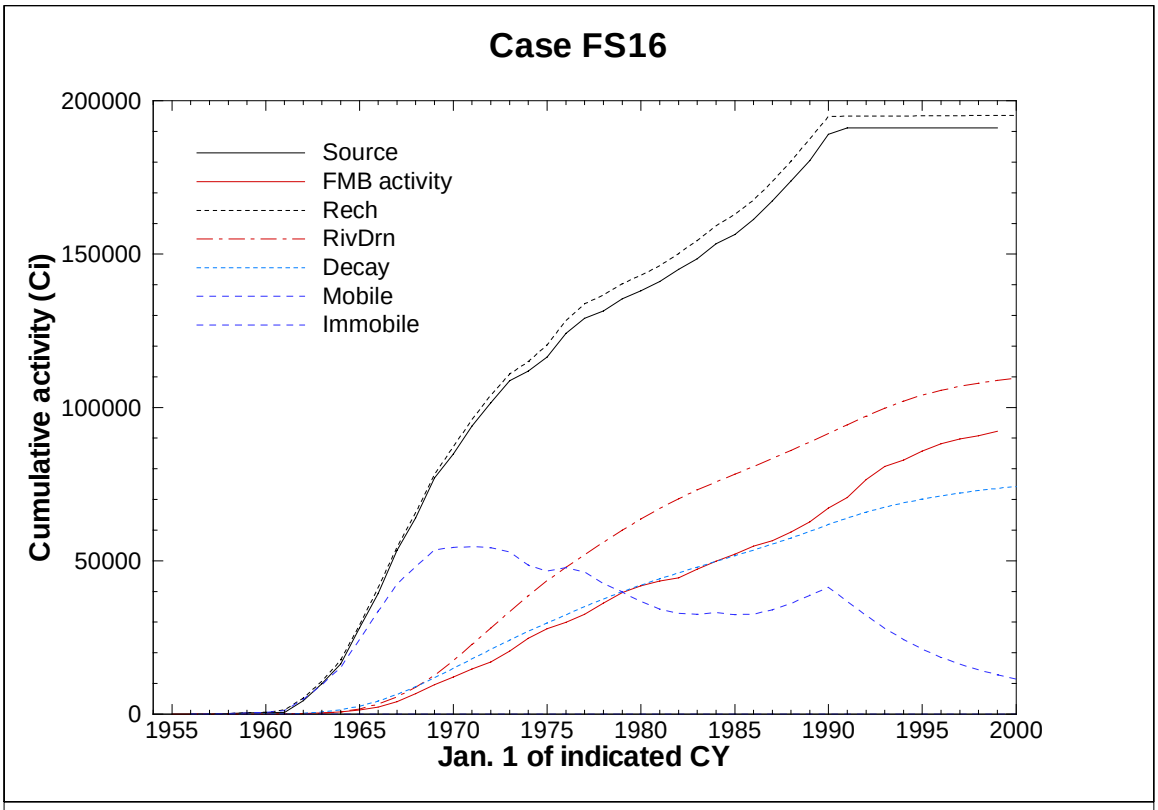

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

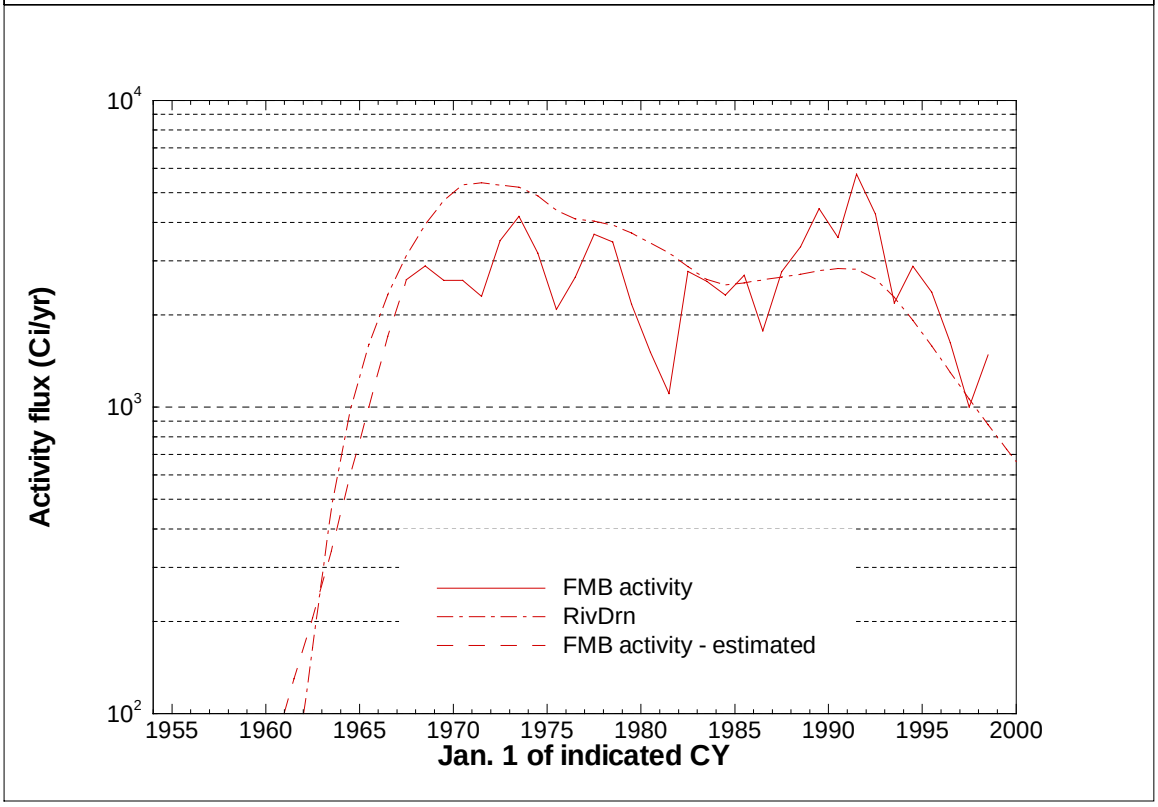

Case FS14
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

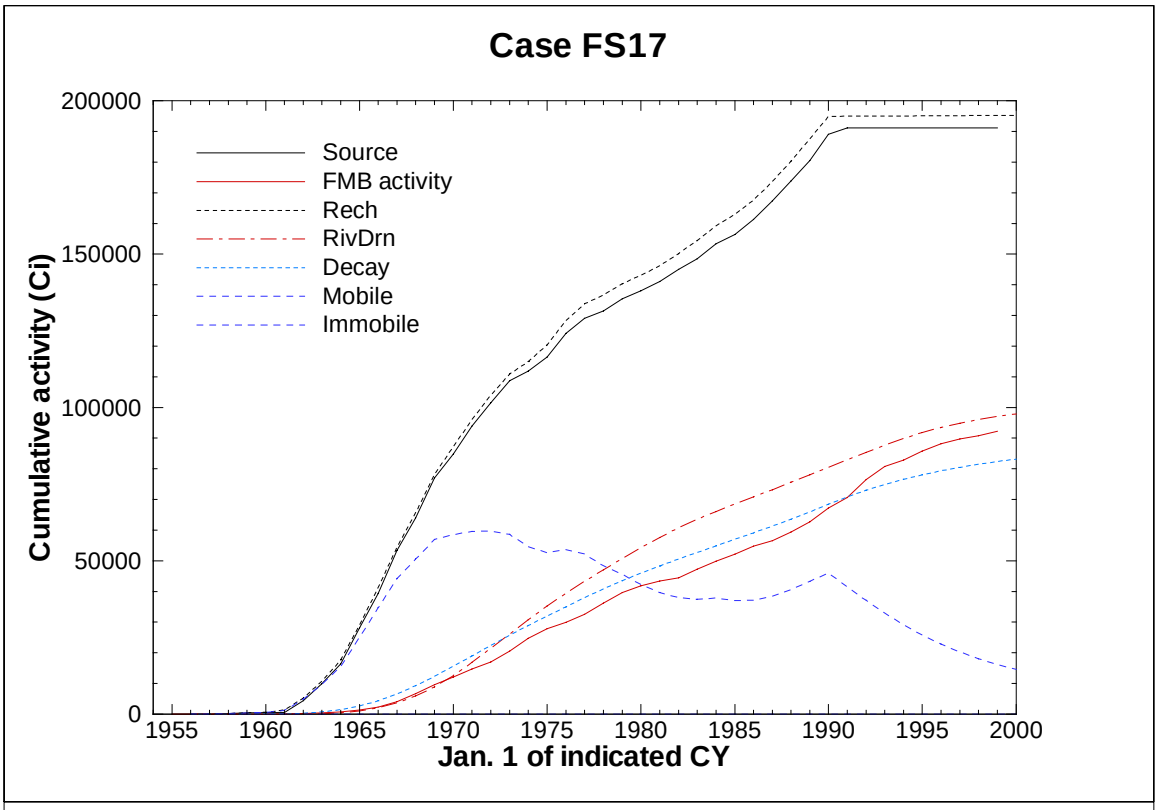

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

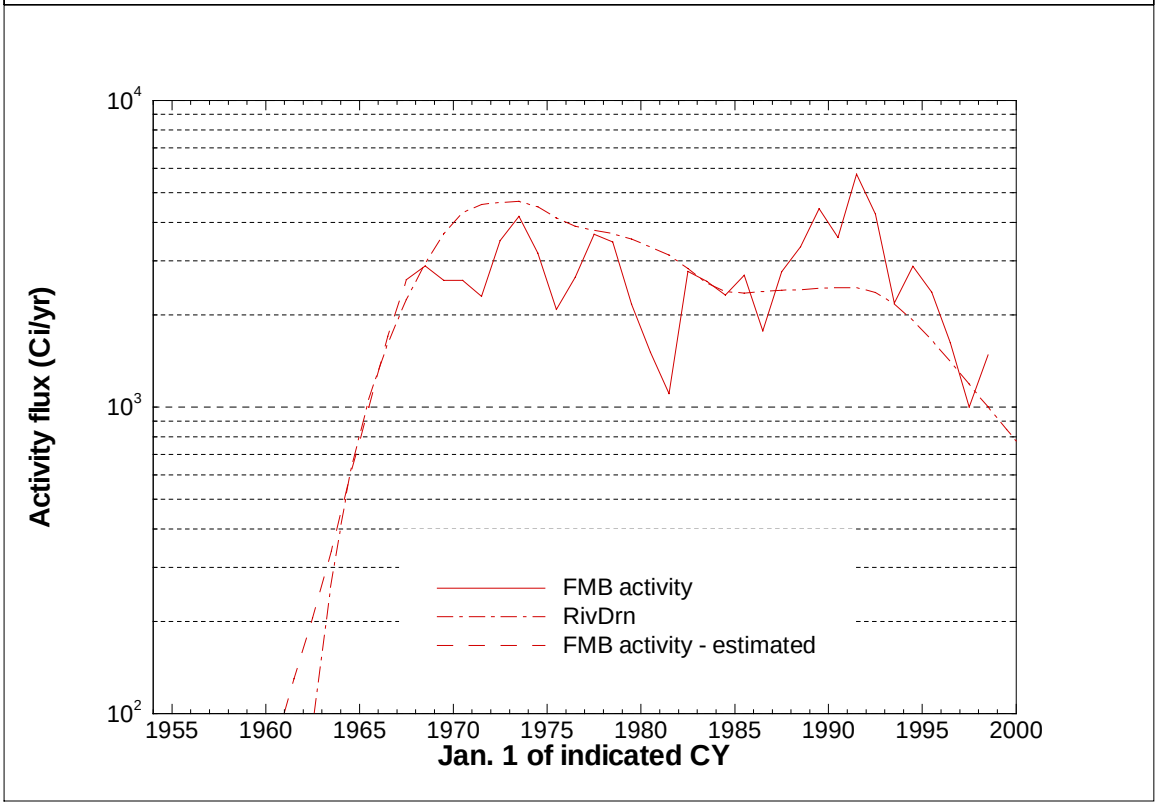

Case FS15
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

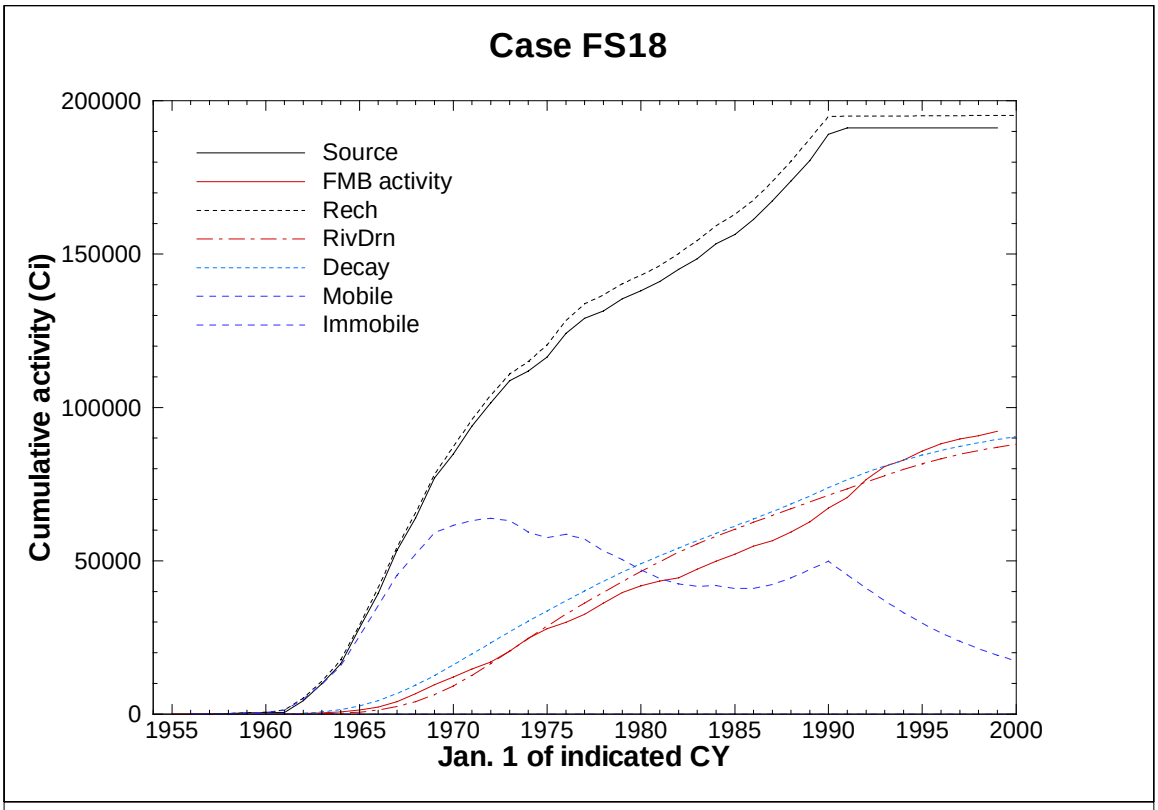

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

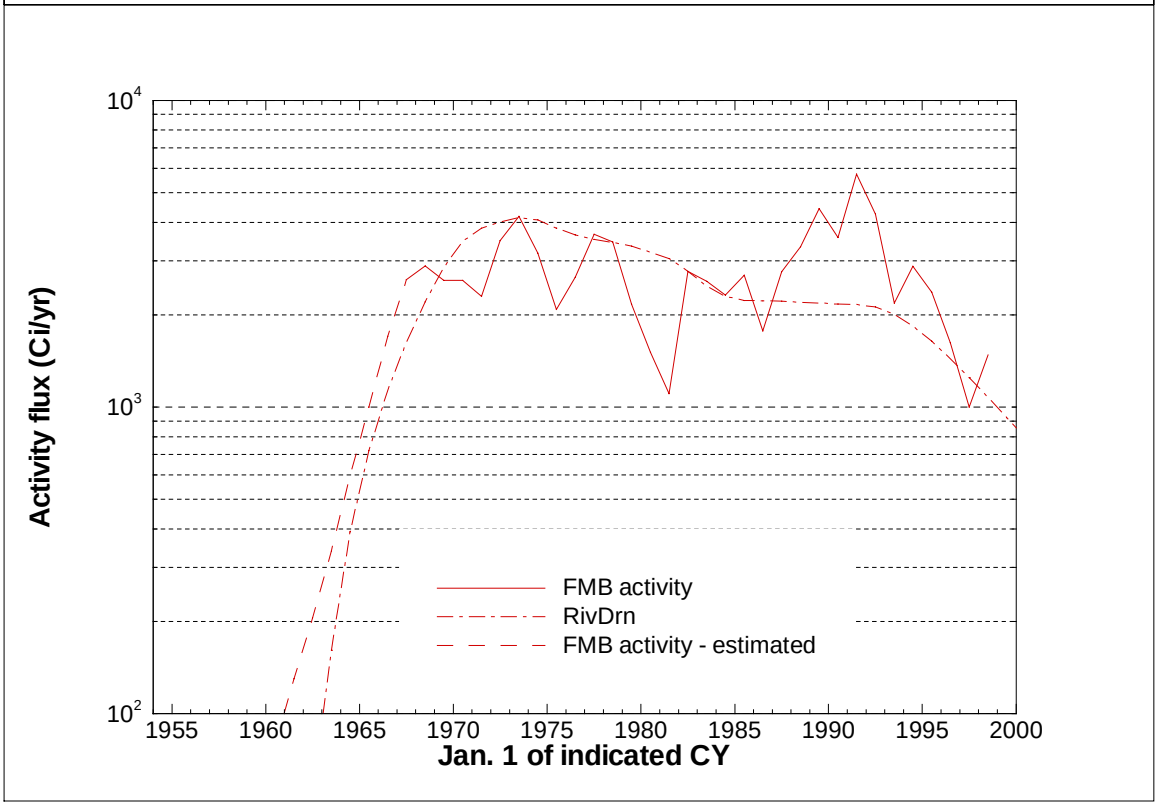

Case FS16
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

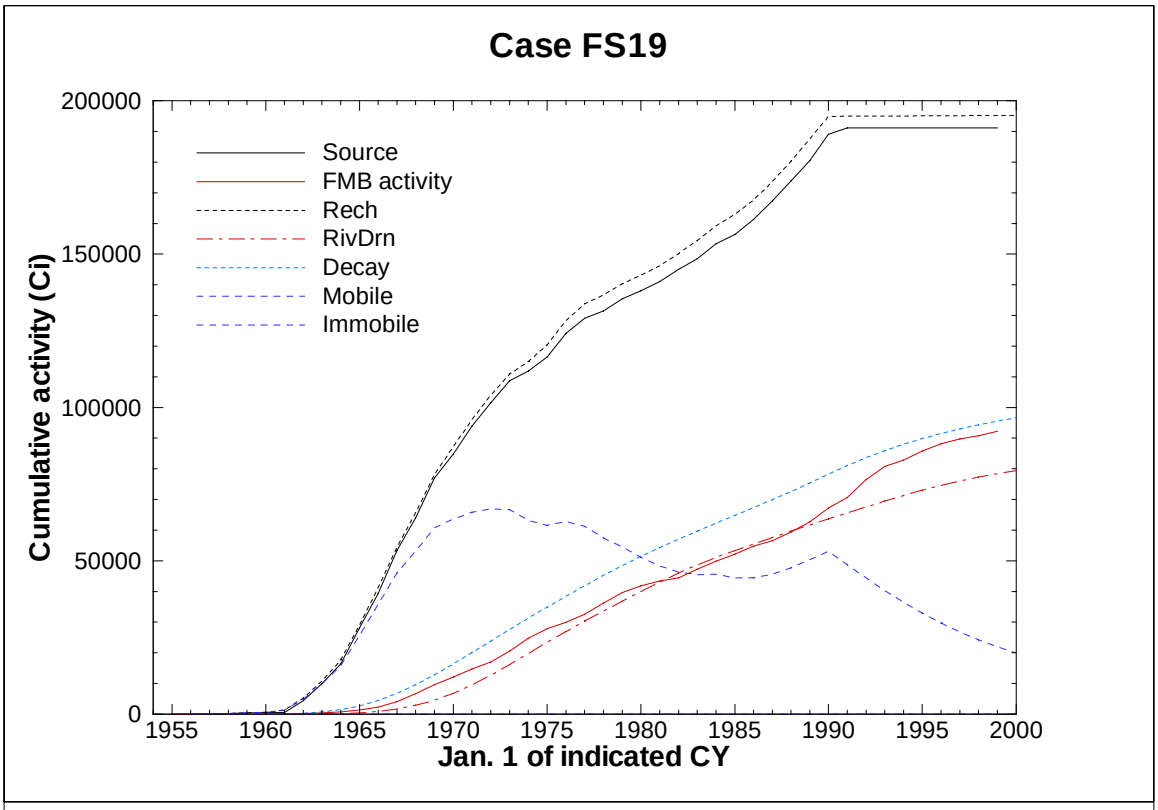

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

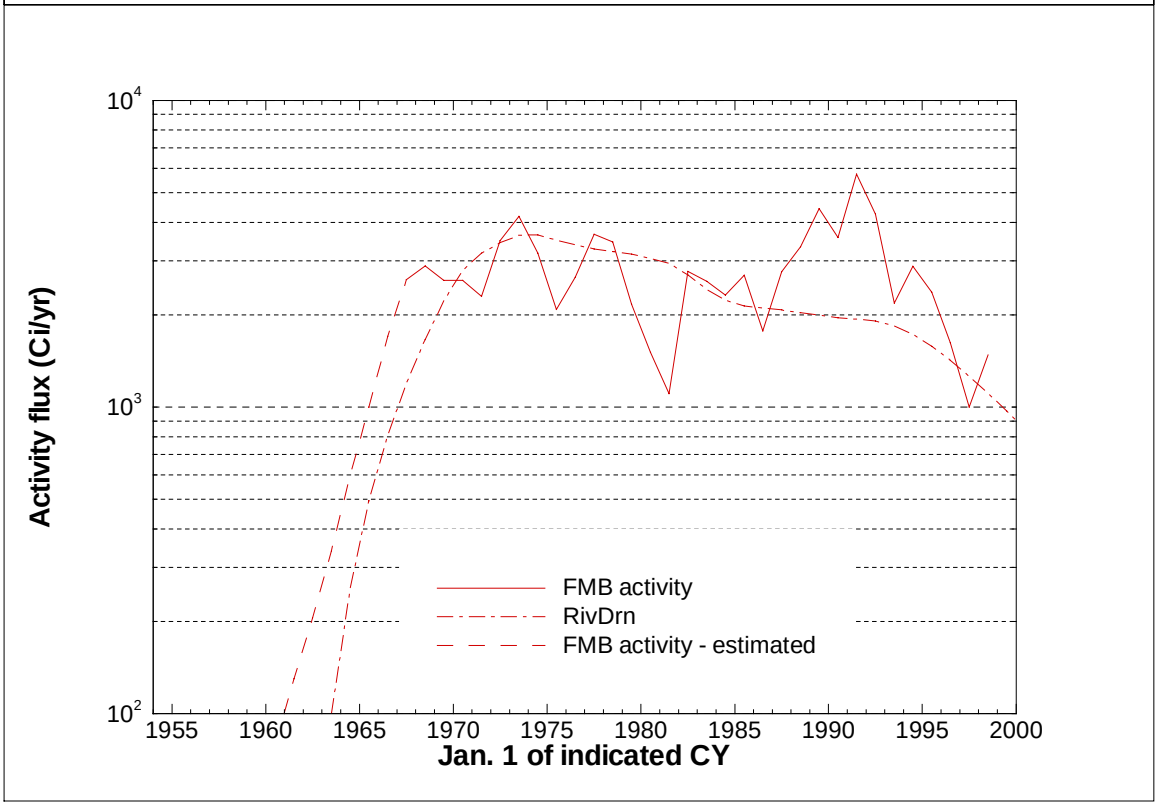

Case FS17
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

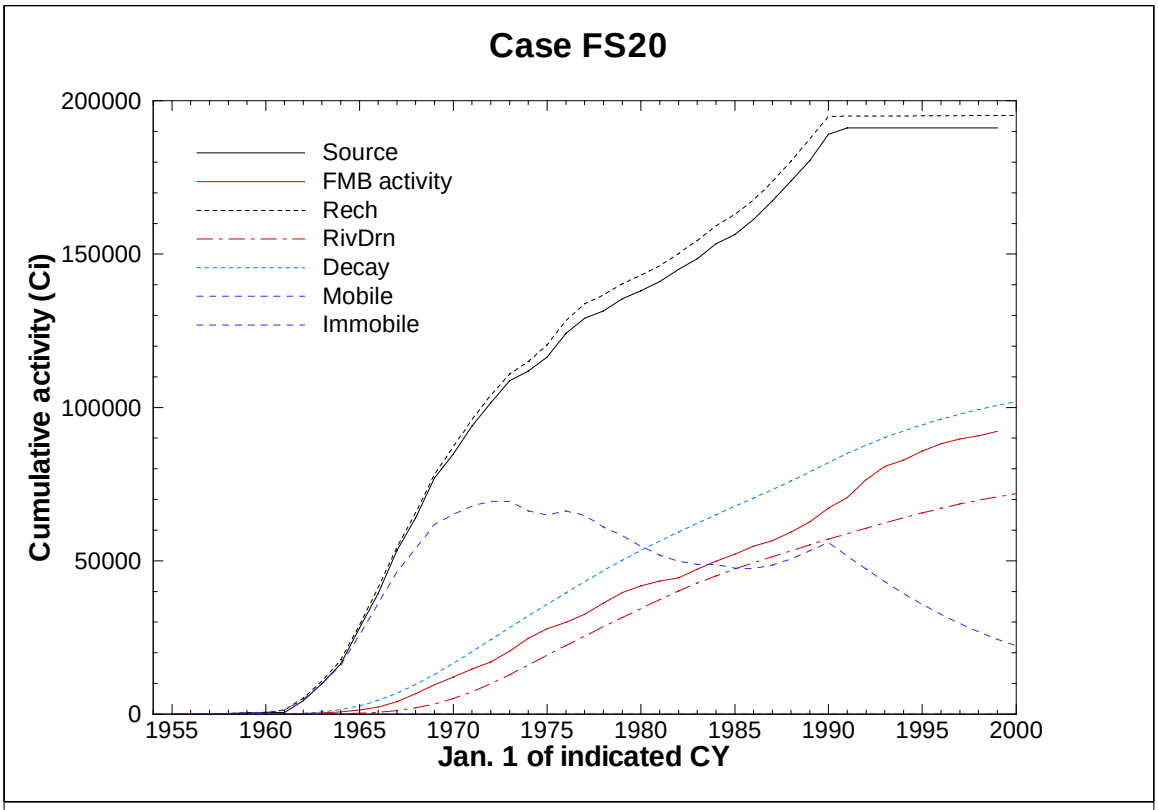

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

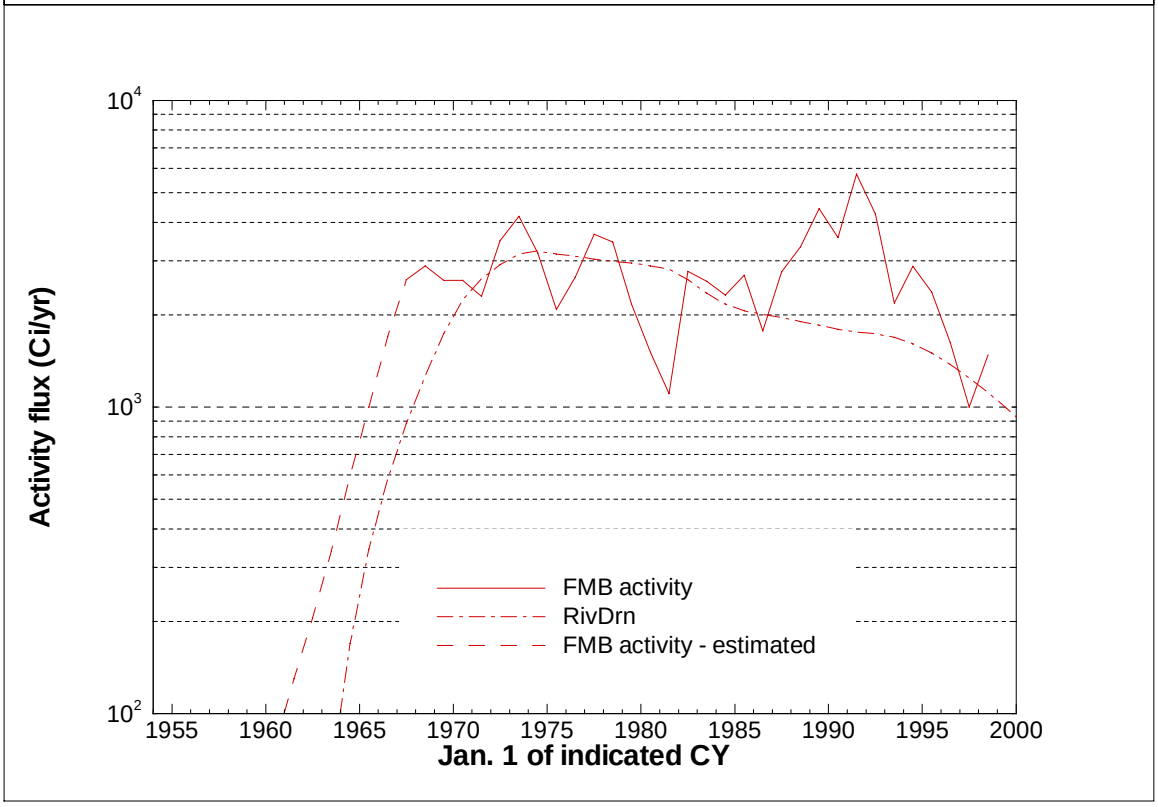

Case FS18
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

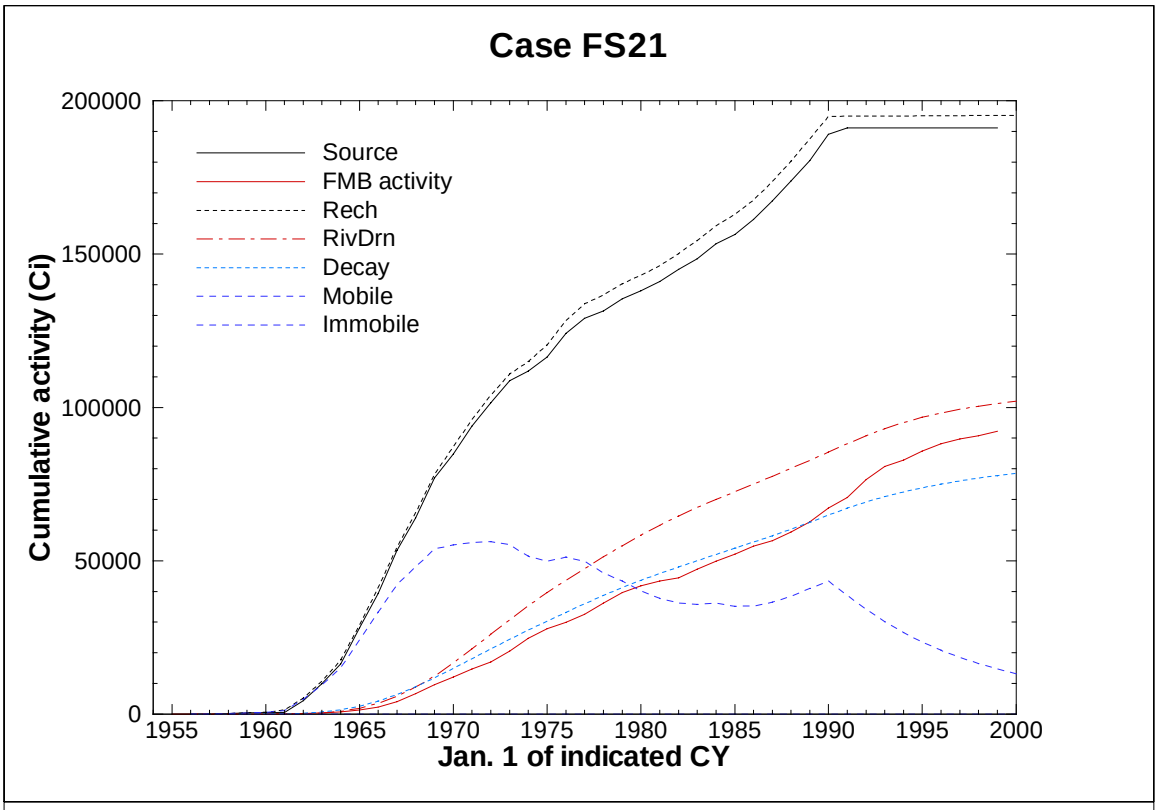

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

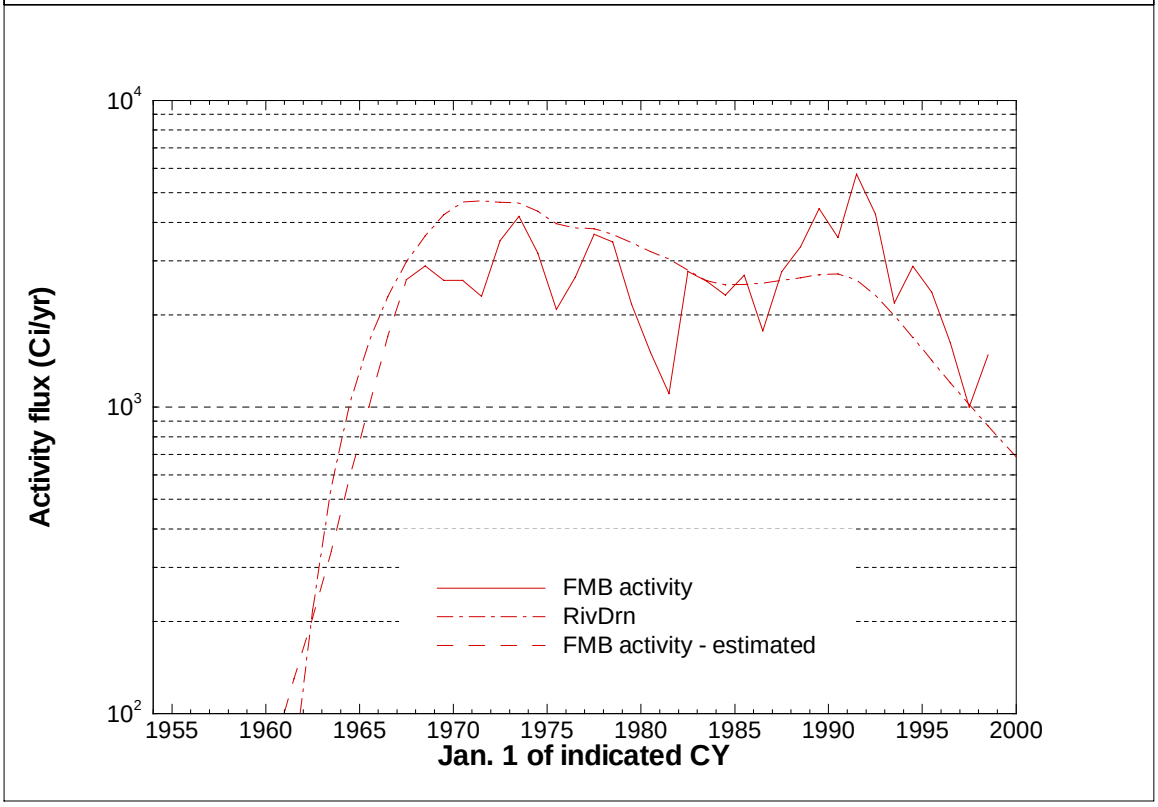

Case FS19
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

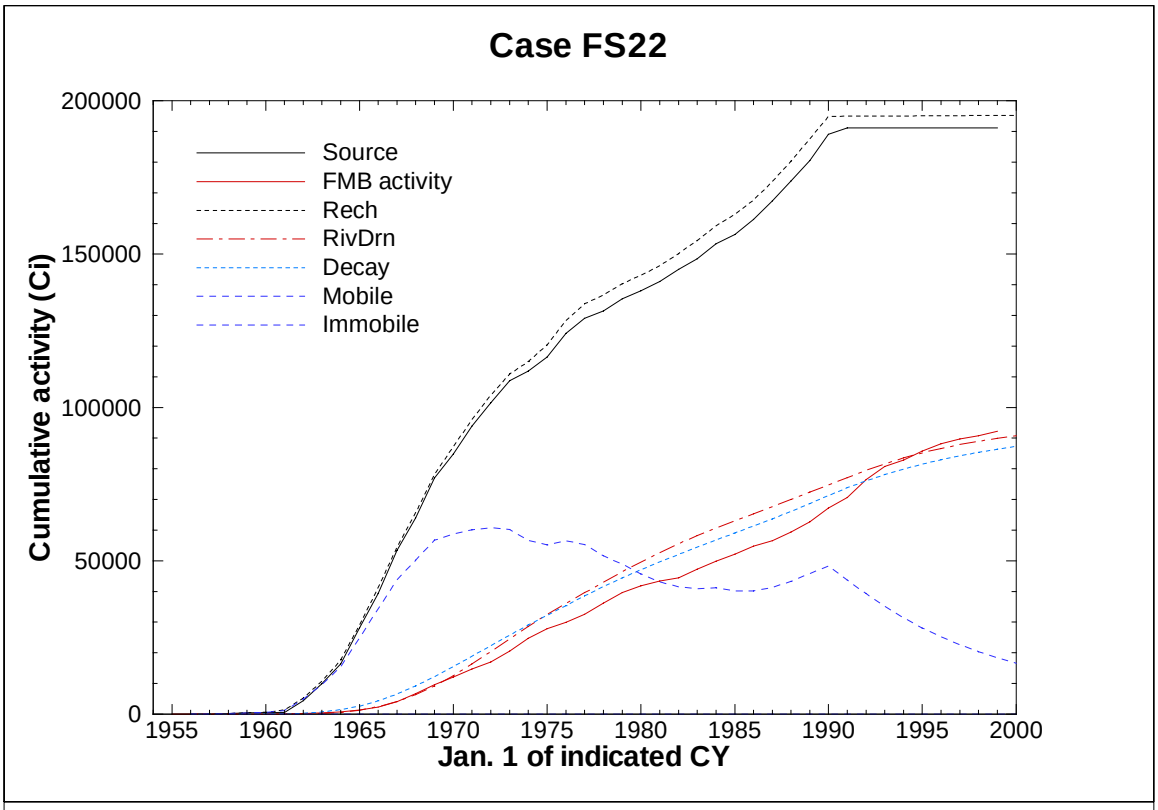

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

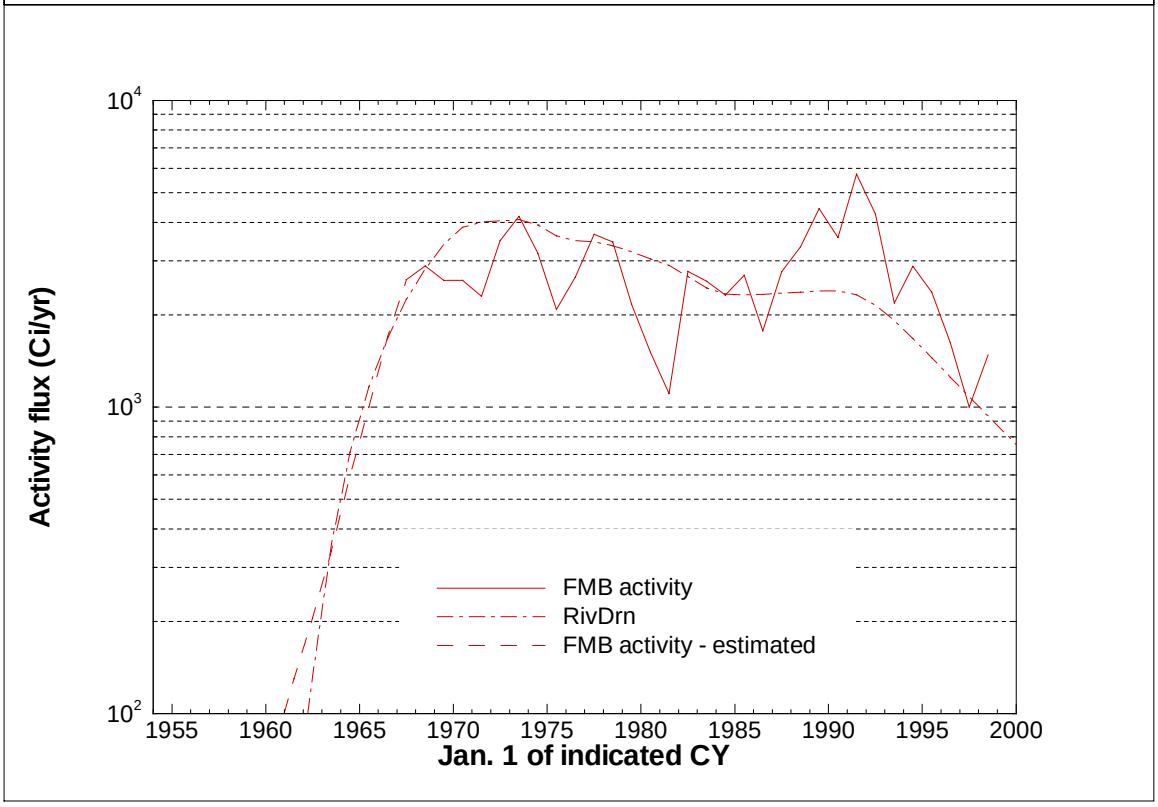

Case FS20
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

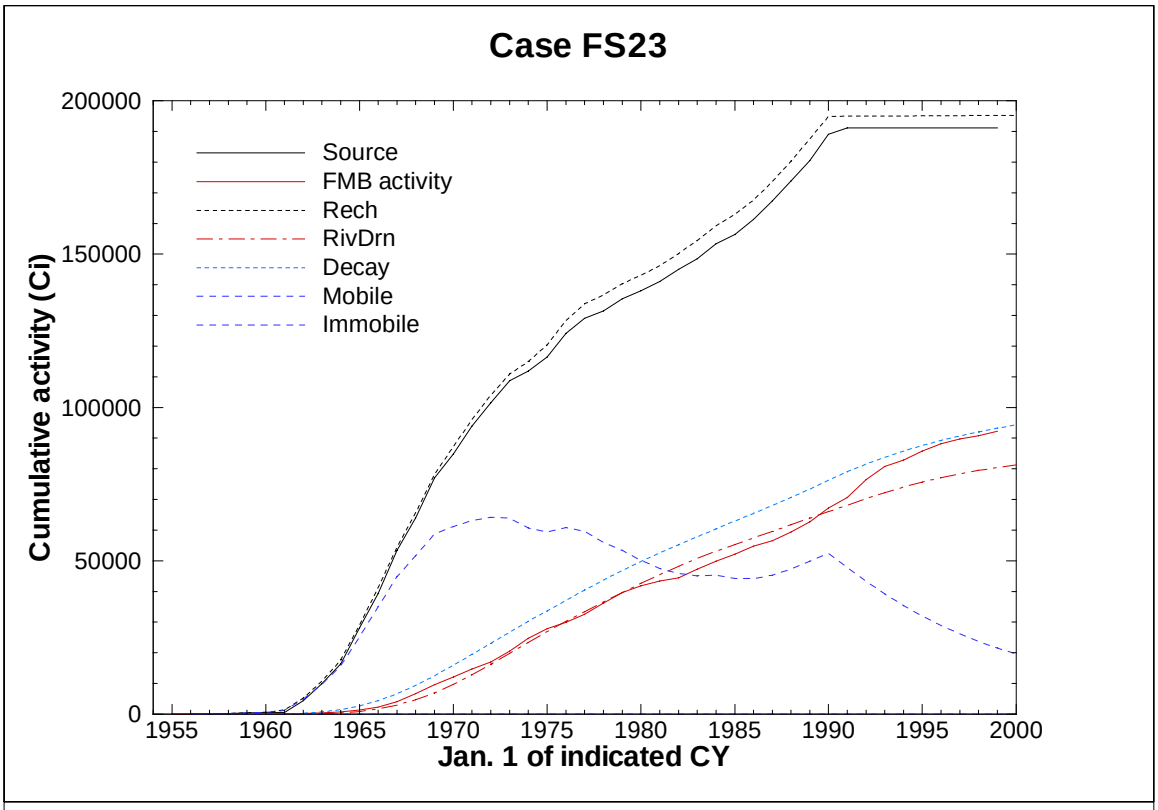

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

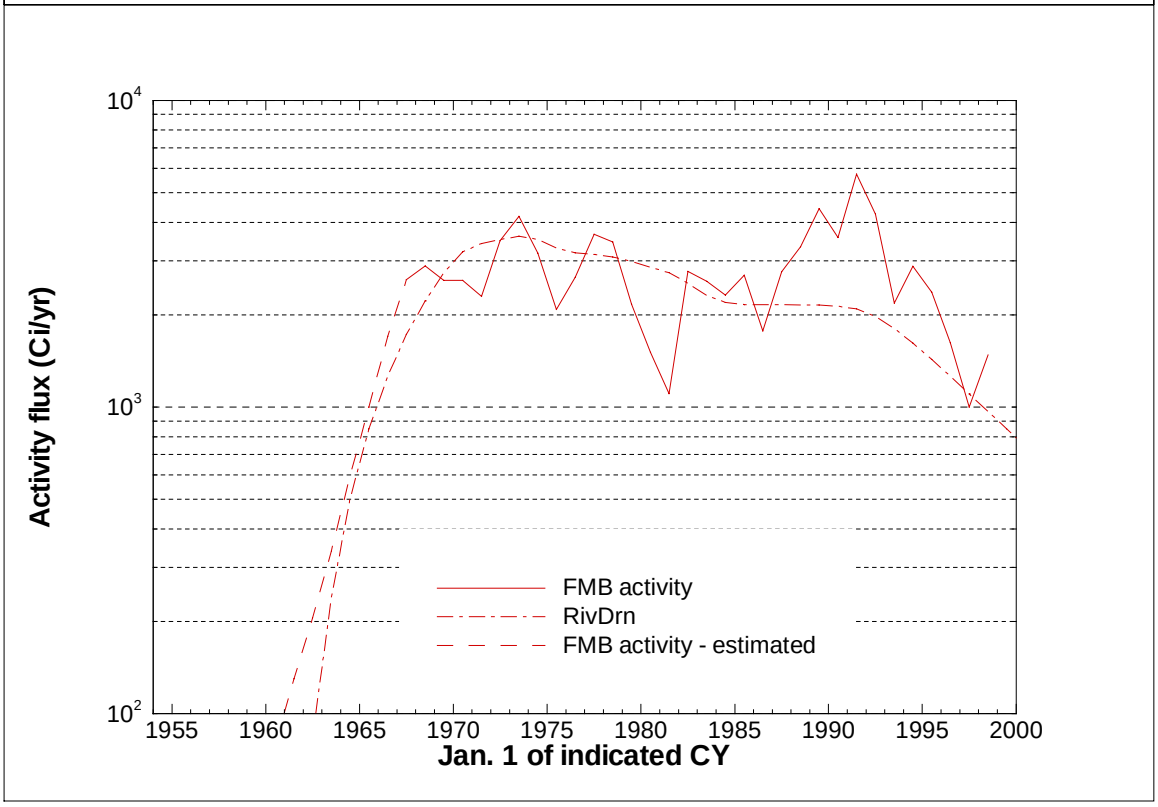

Case FS21
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

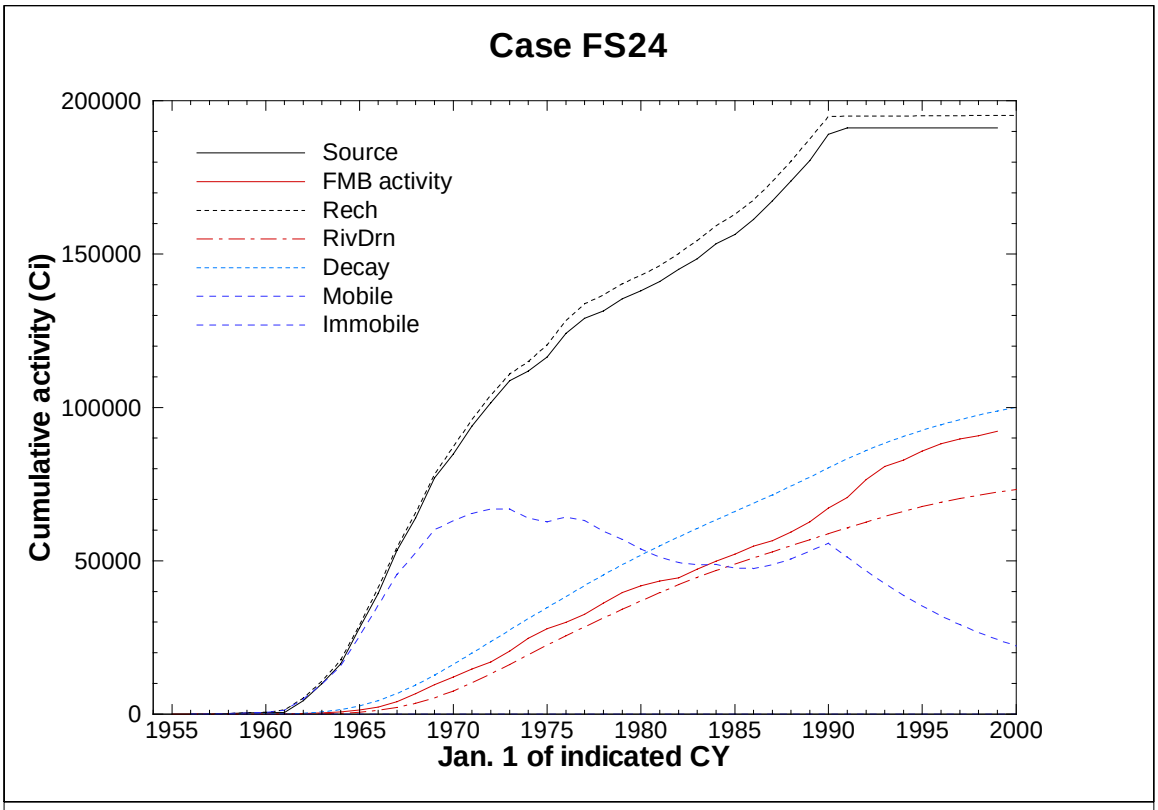

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

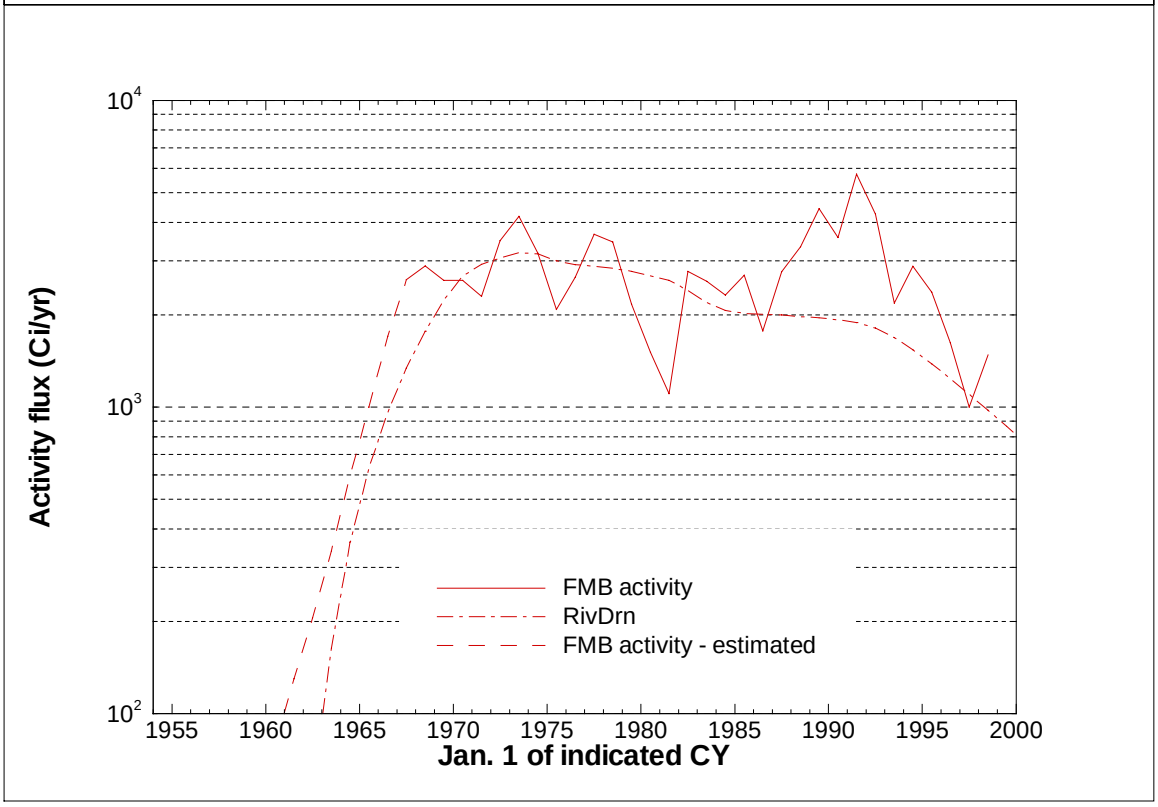

Case FS22
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

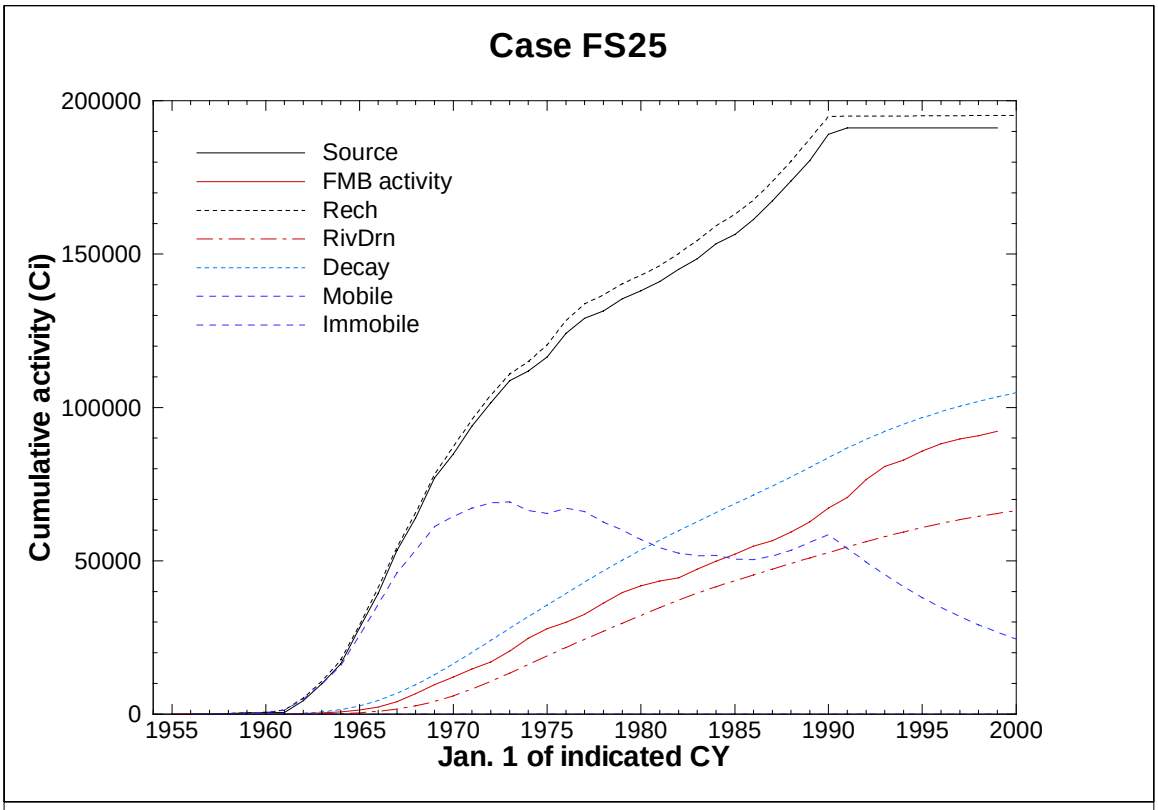

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

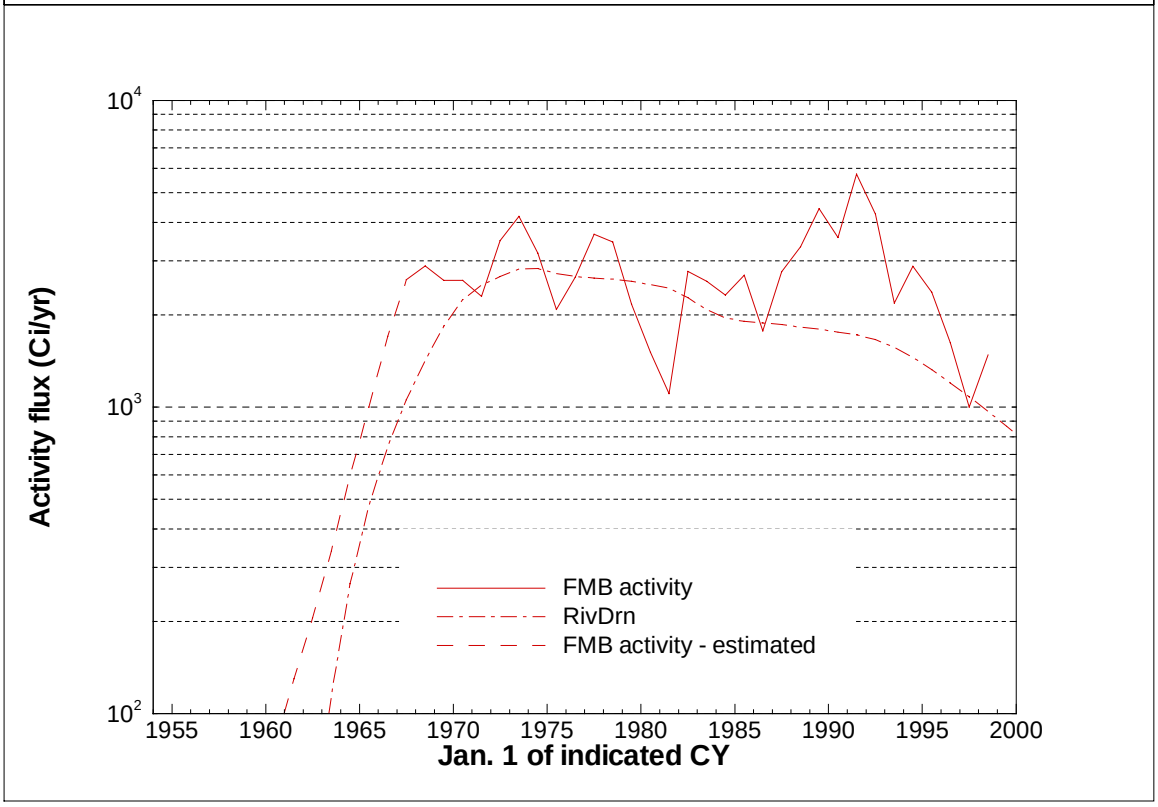

Case FS23
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

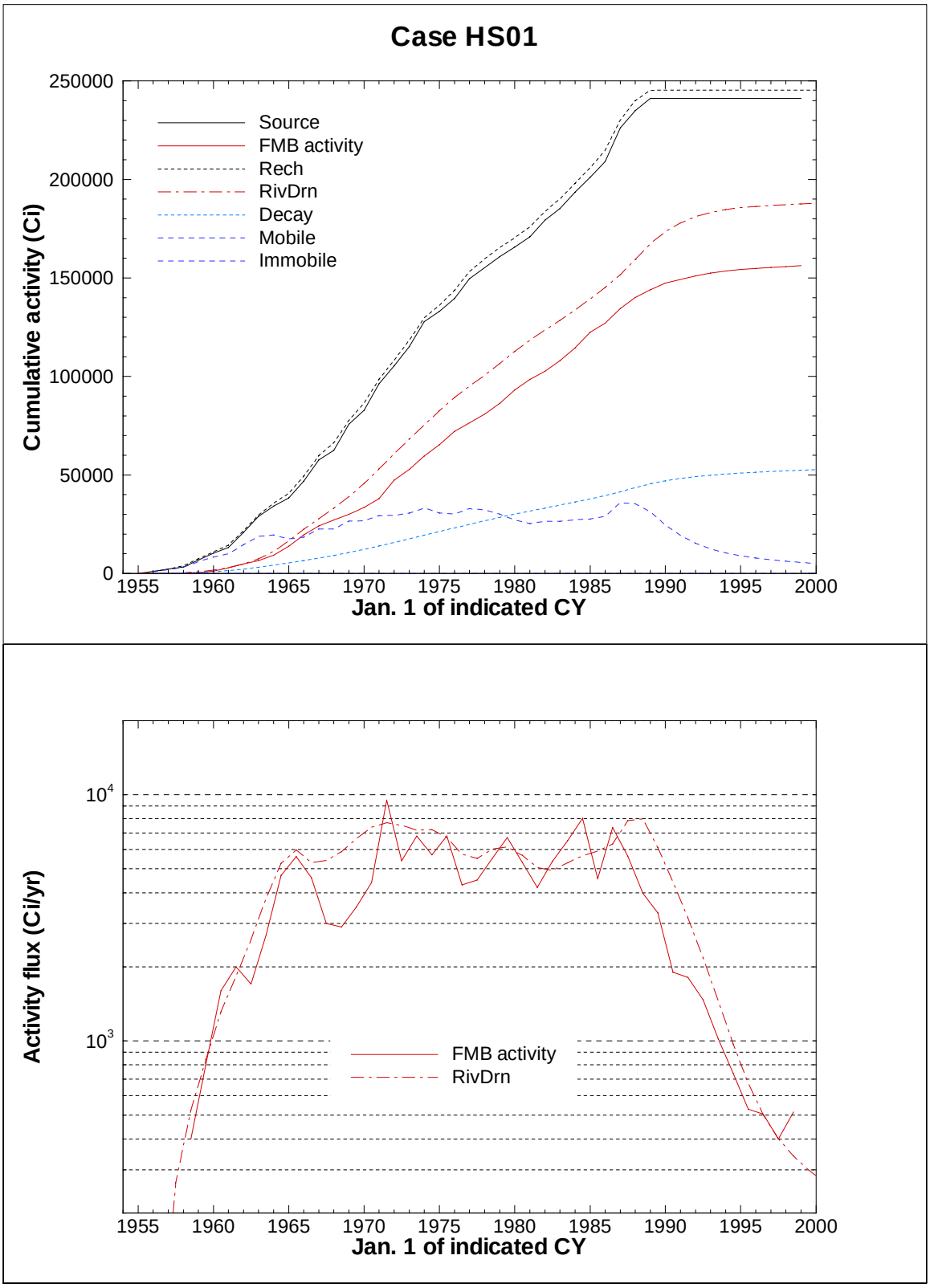

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

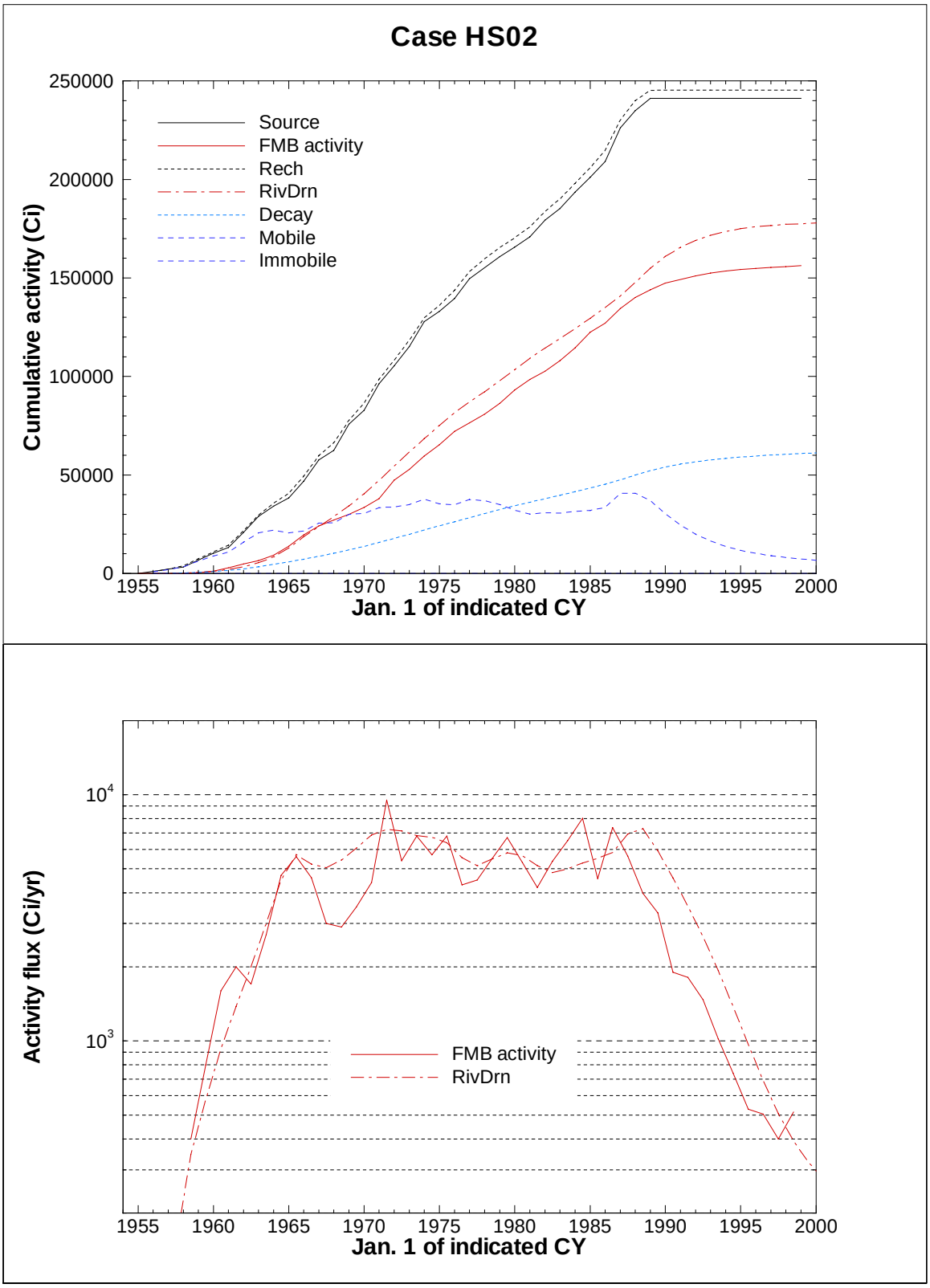

Case FS24
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

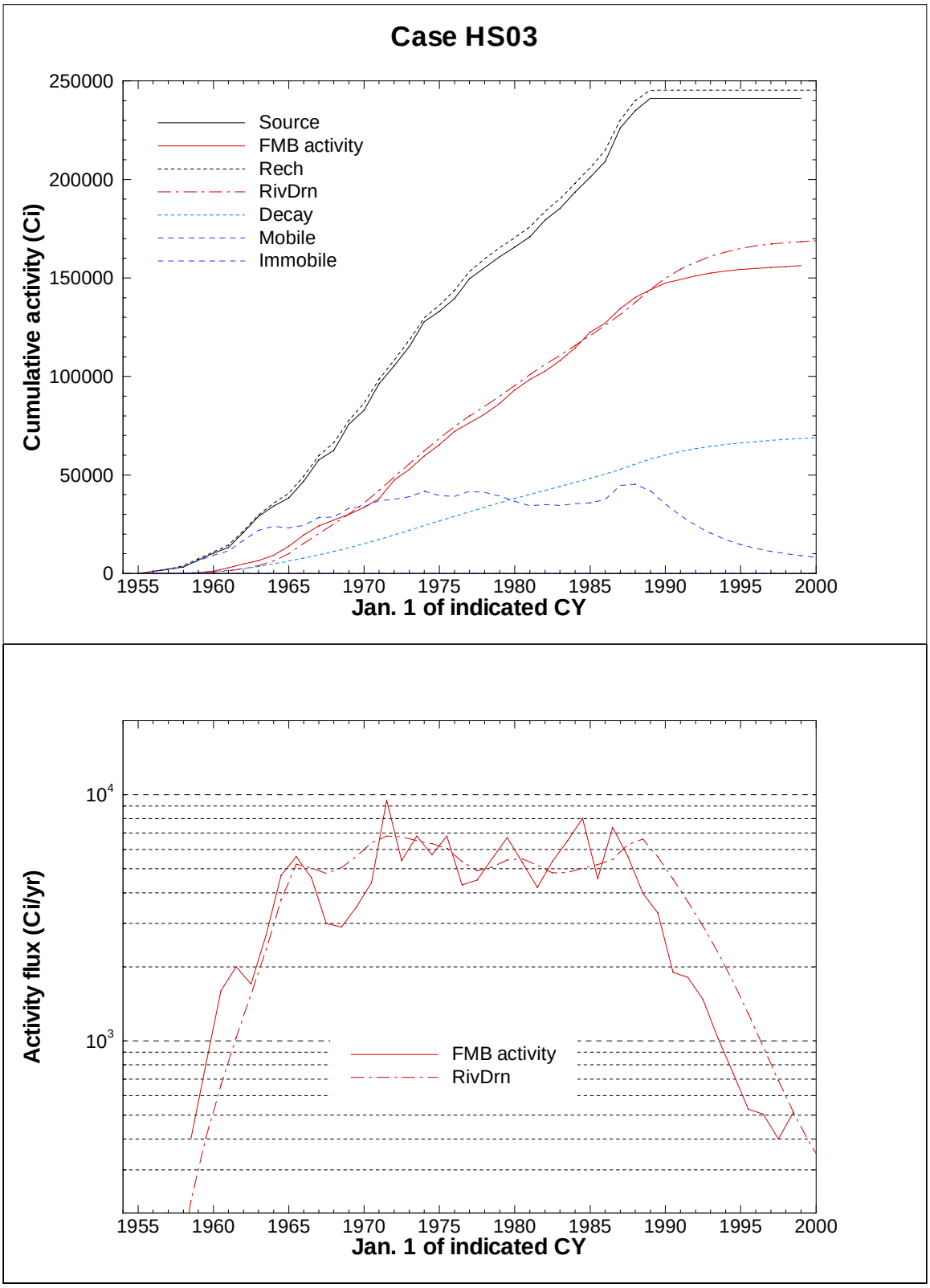

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

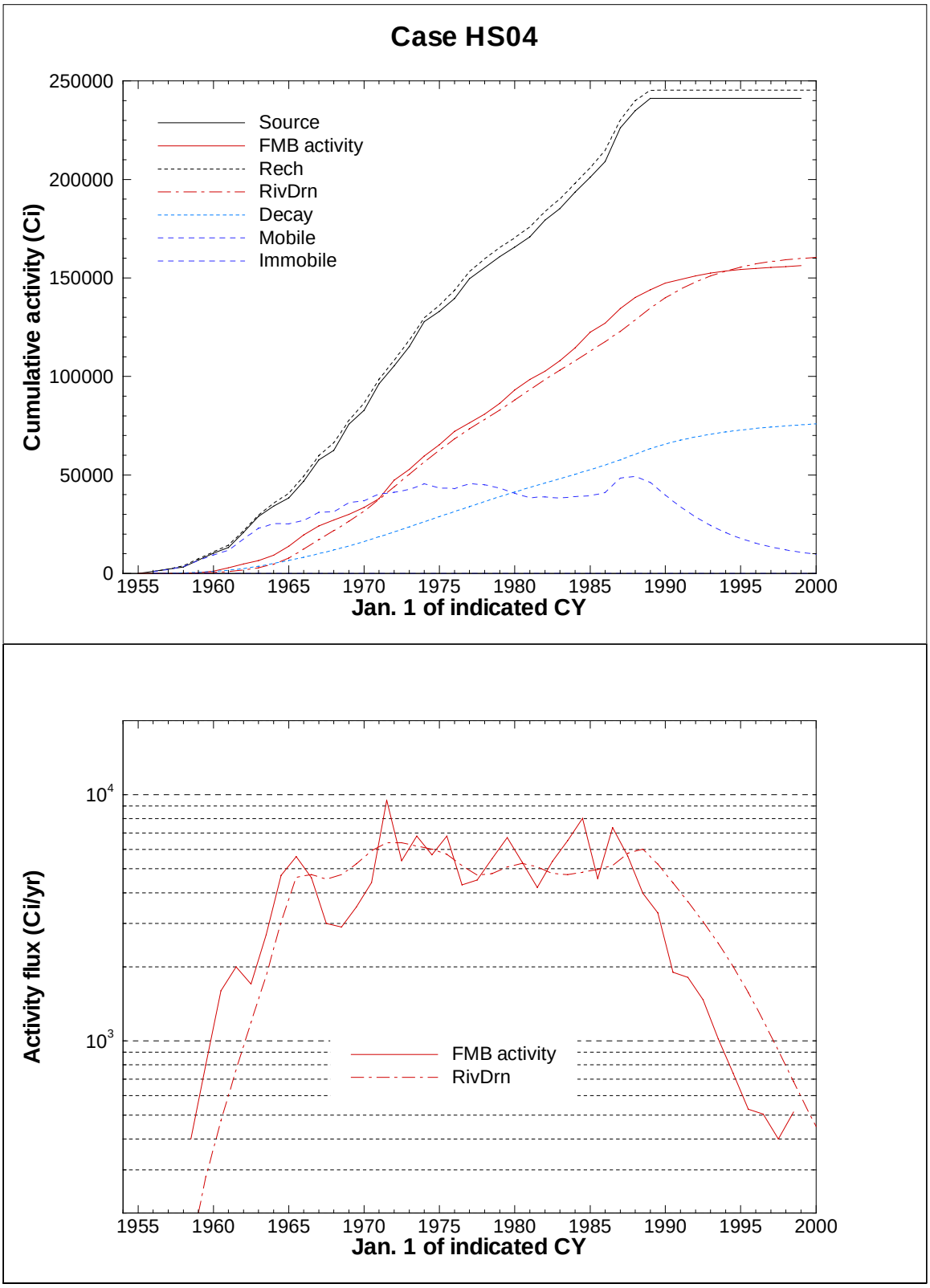

Case FS25
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

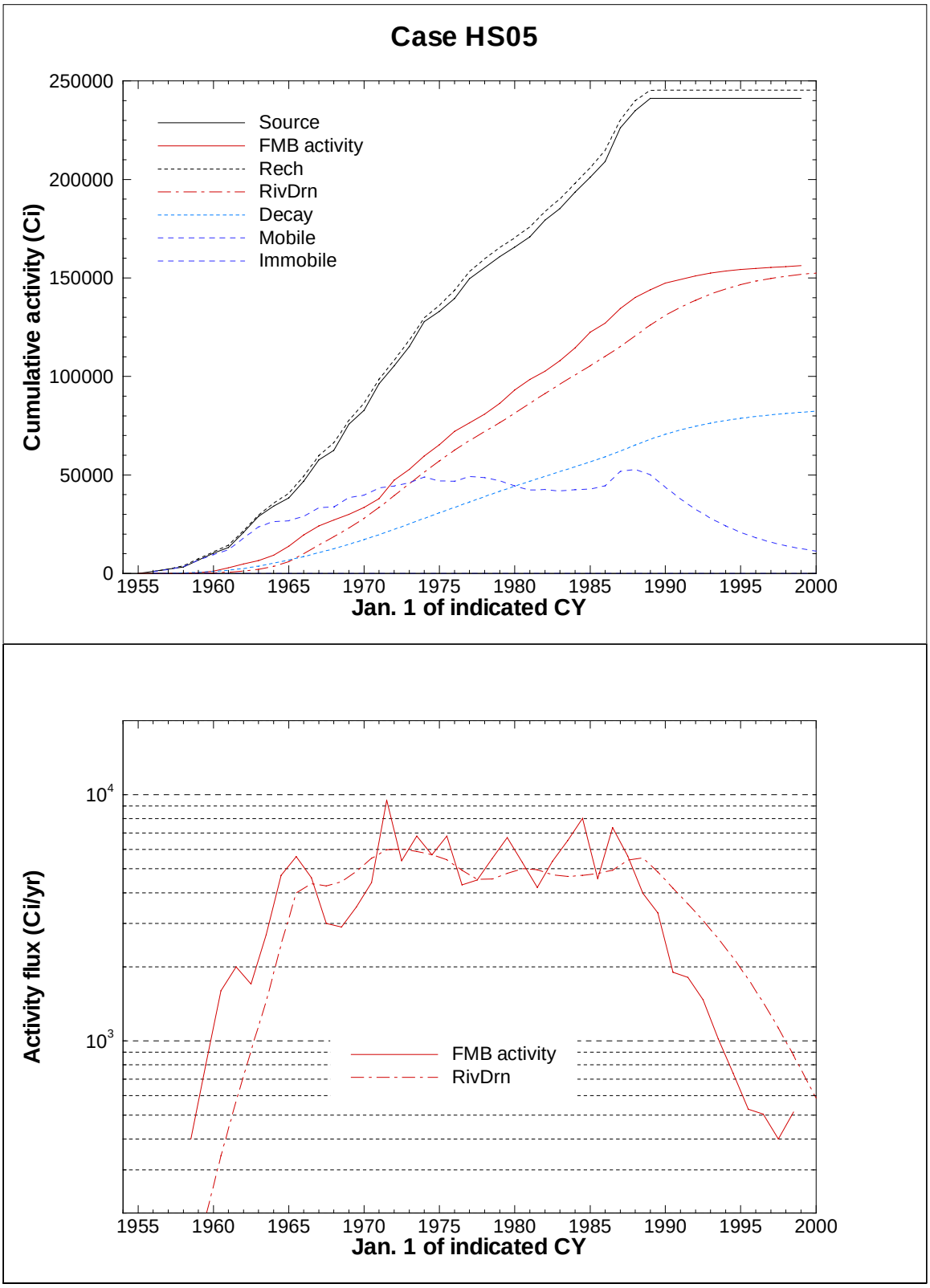

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

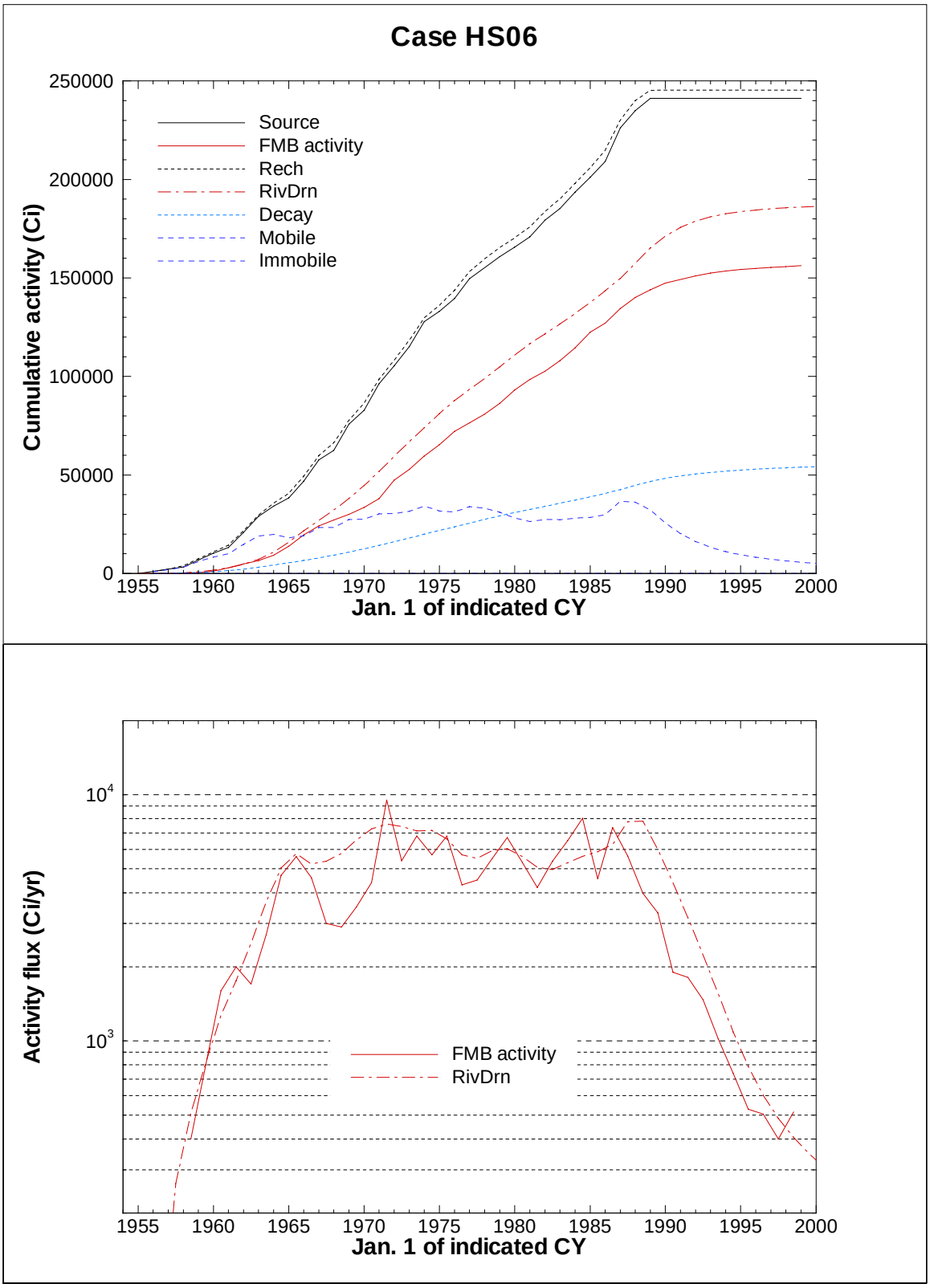

Case HS01
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

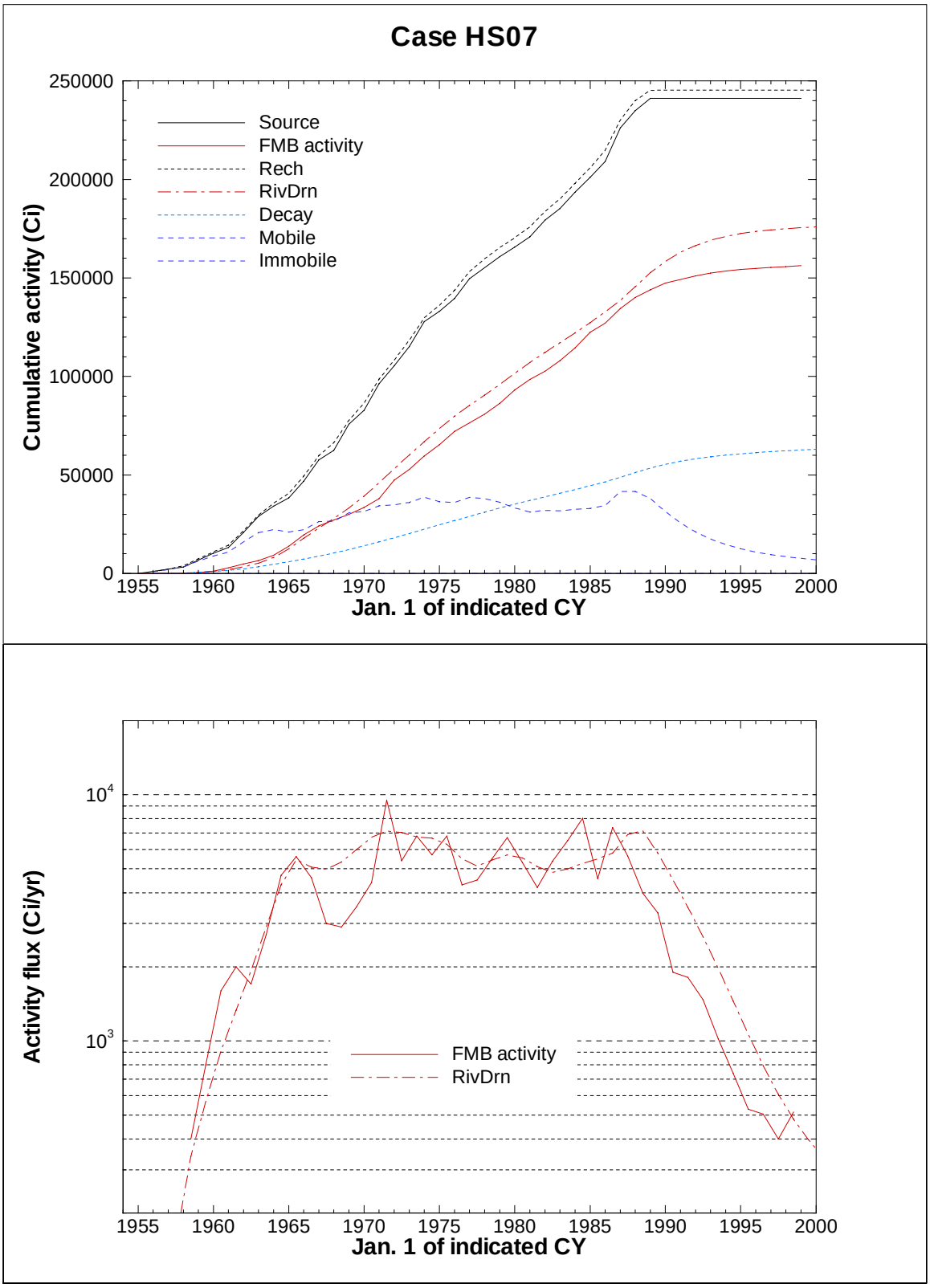

Case HS02
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

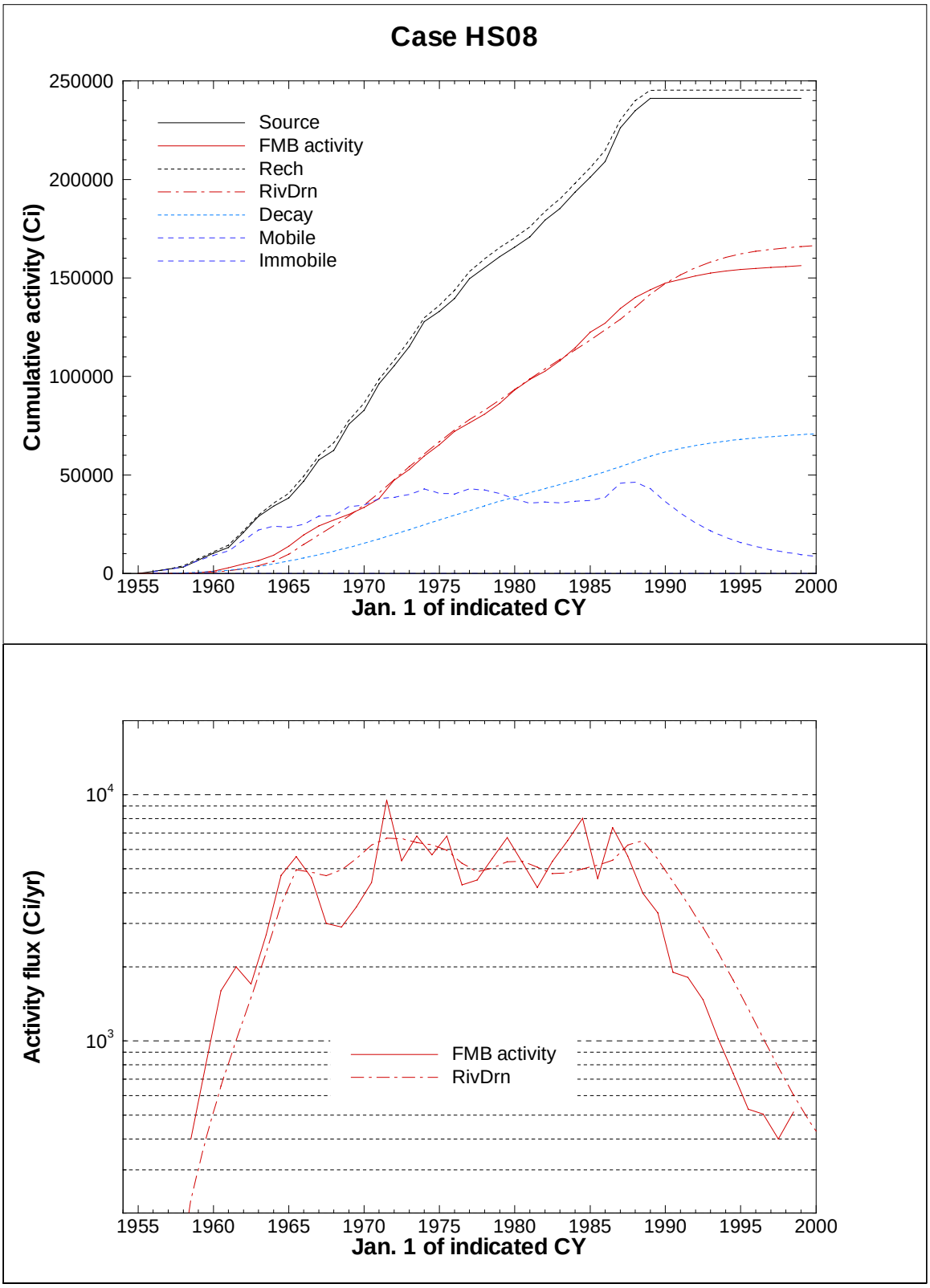

Case HS03
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

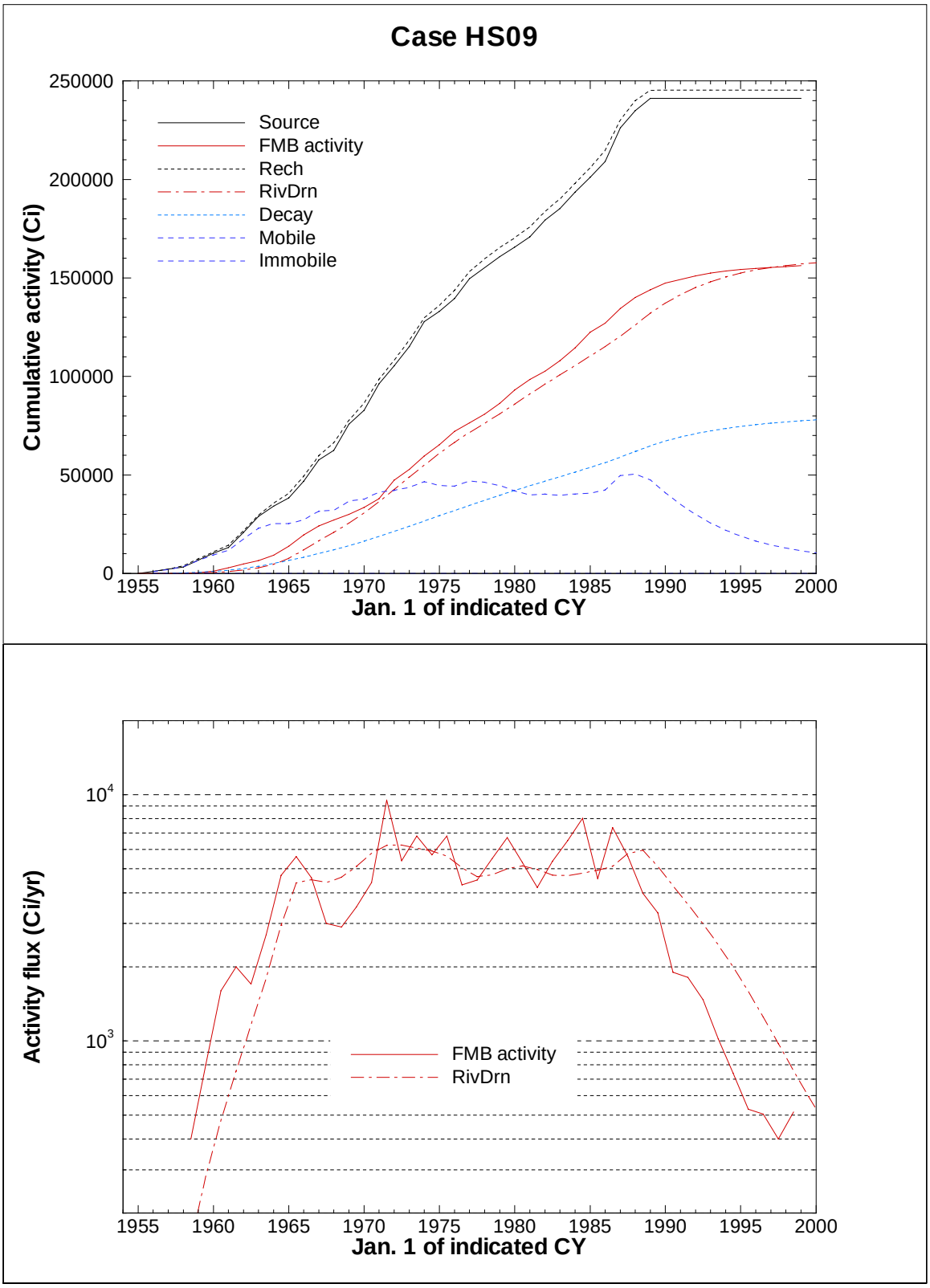

Case HS04
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

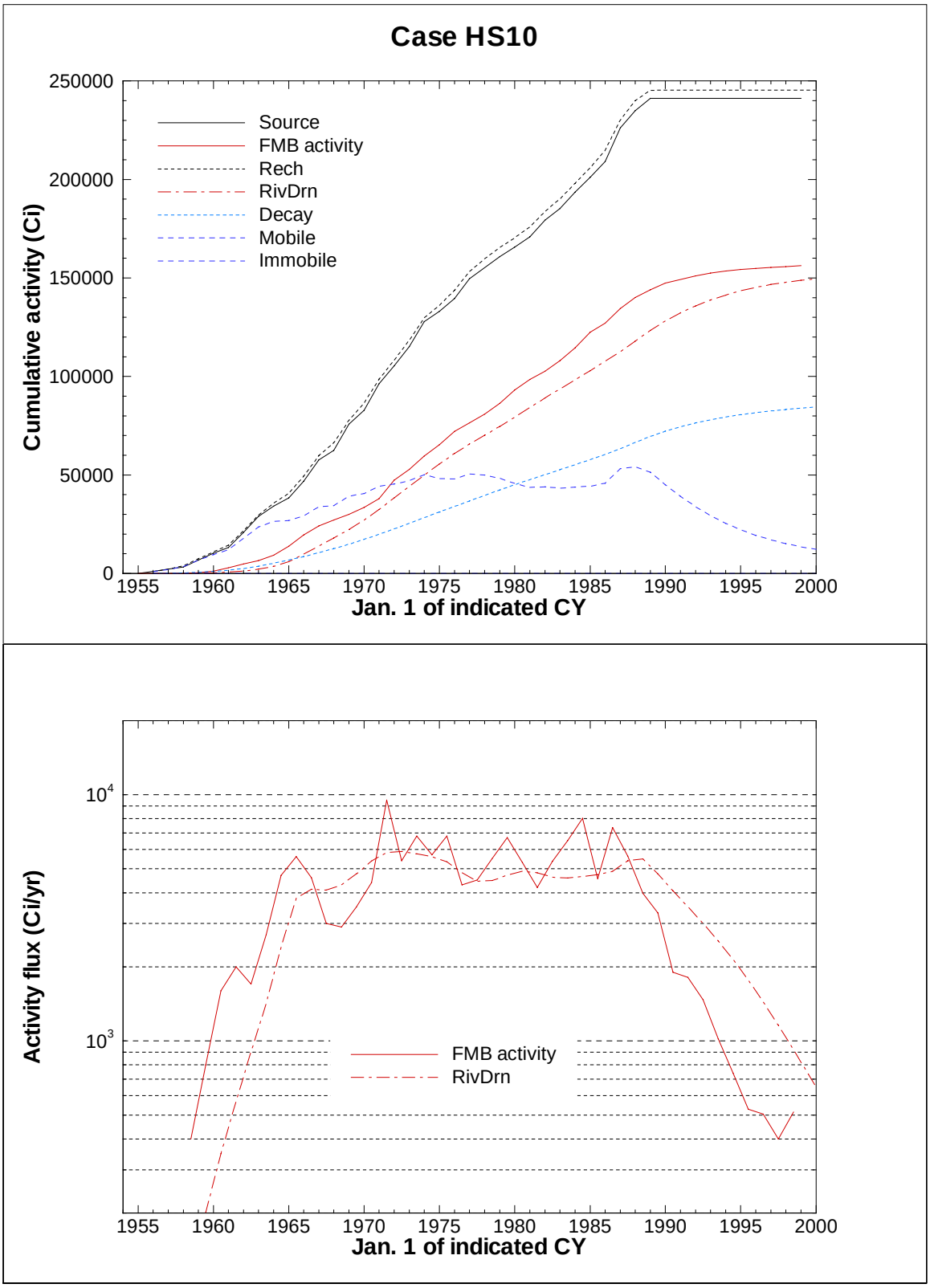

Case HS05
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

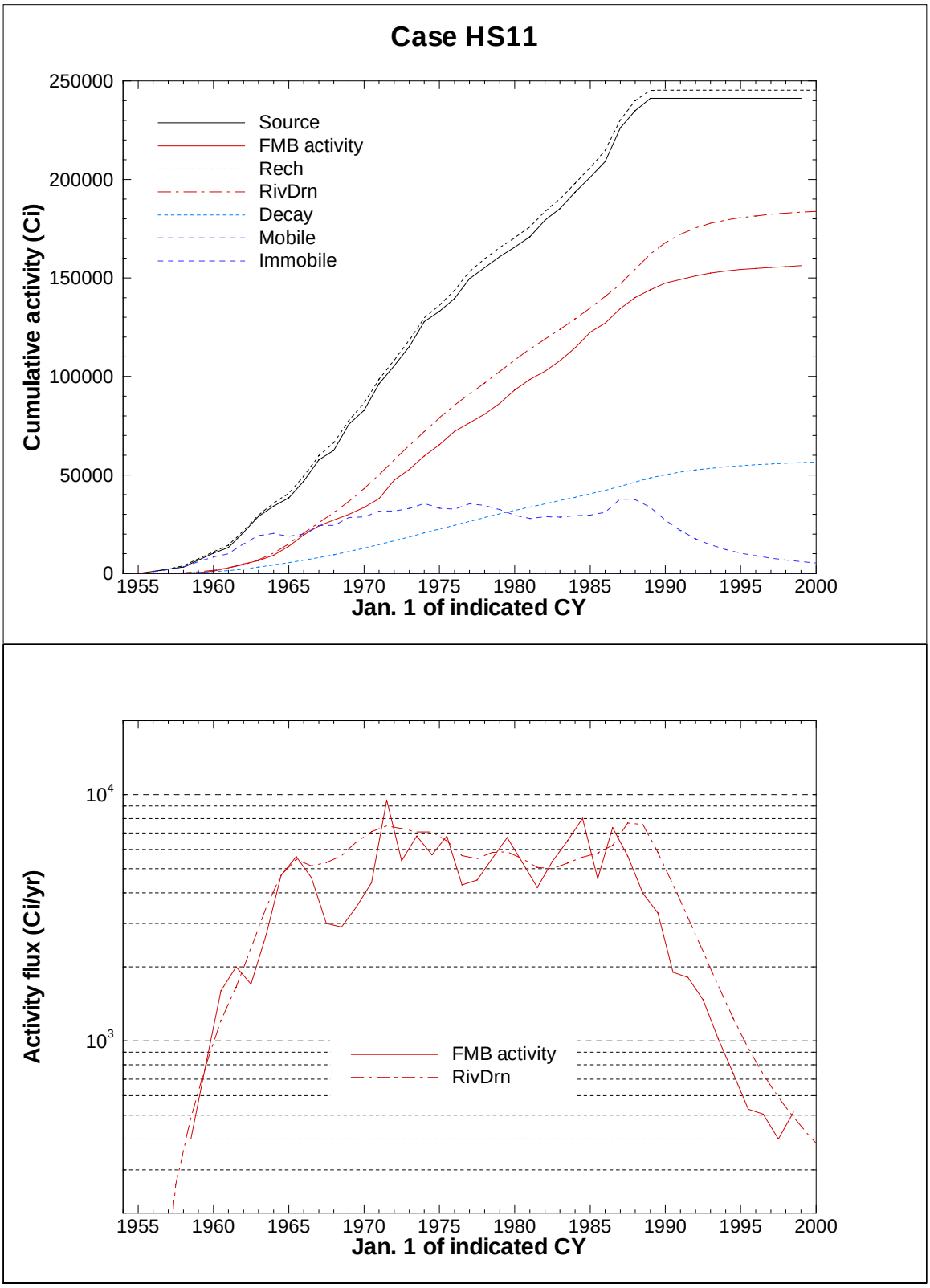

Case HS06
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

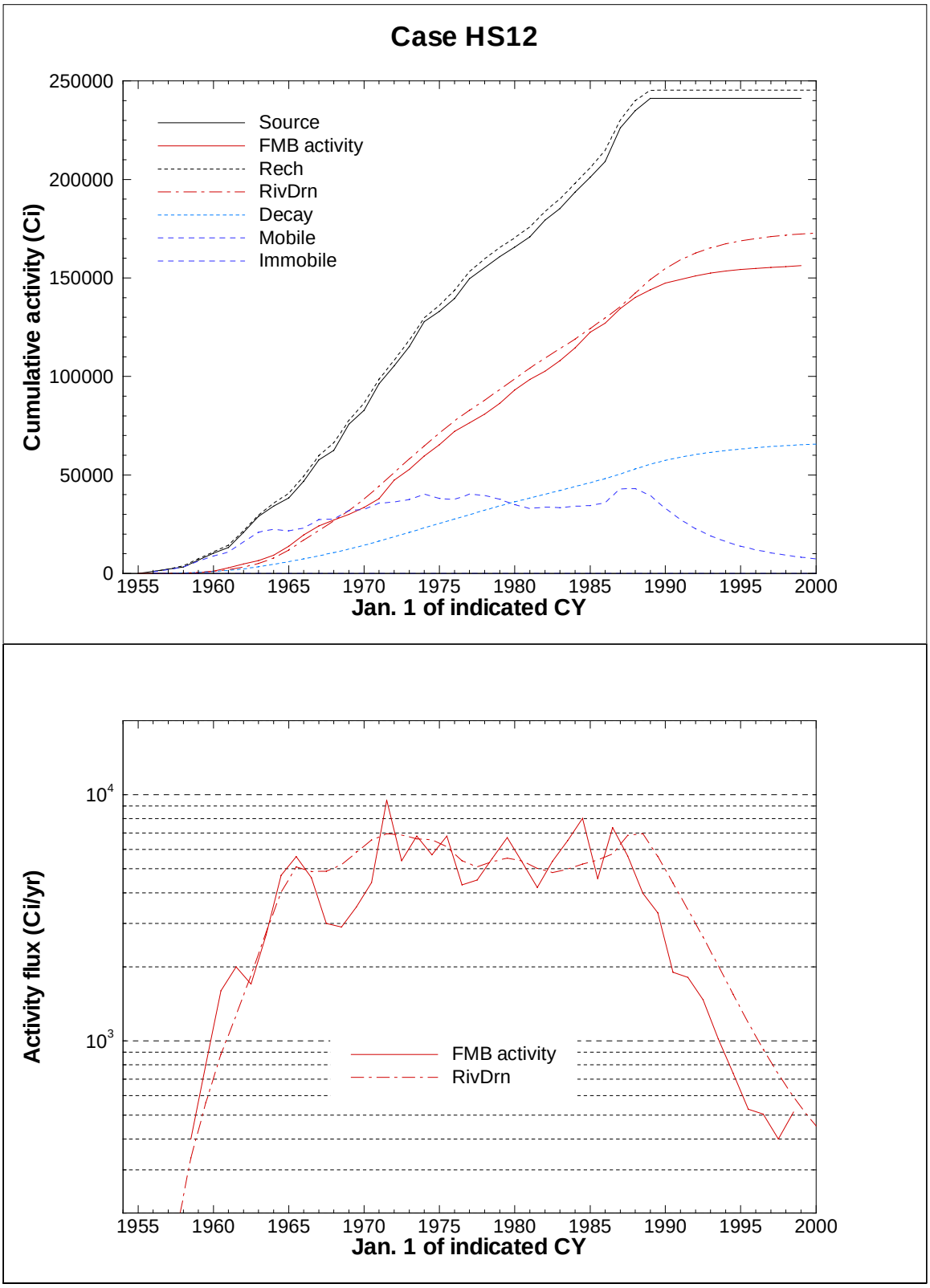

Case HS07
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

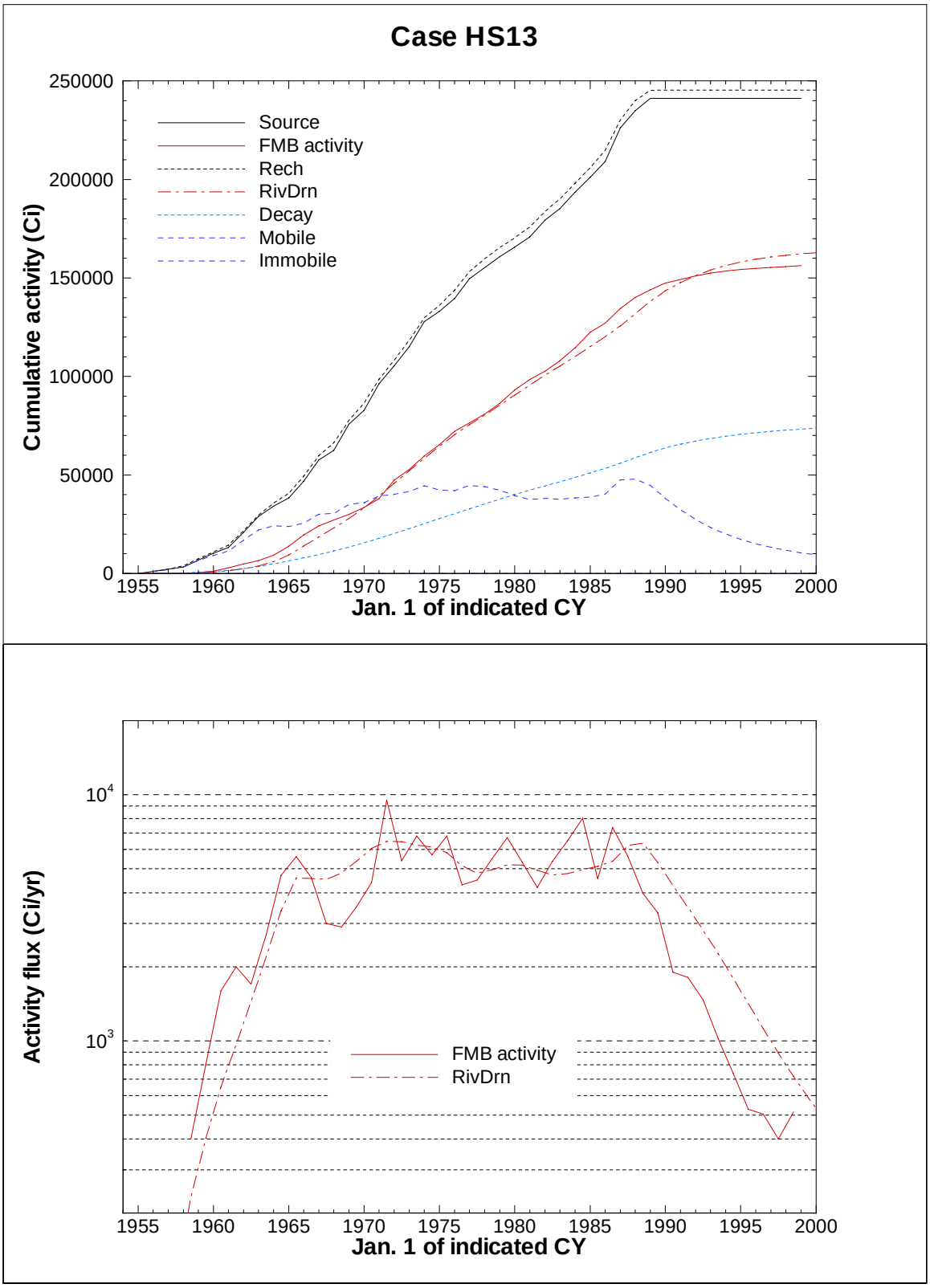

Case HS08
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

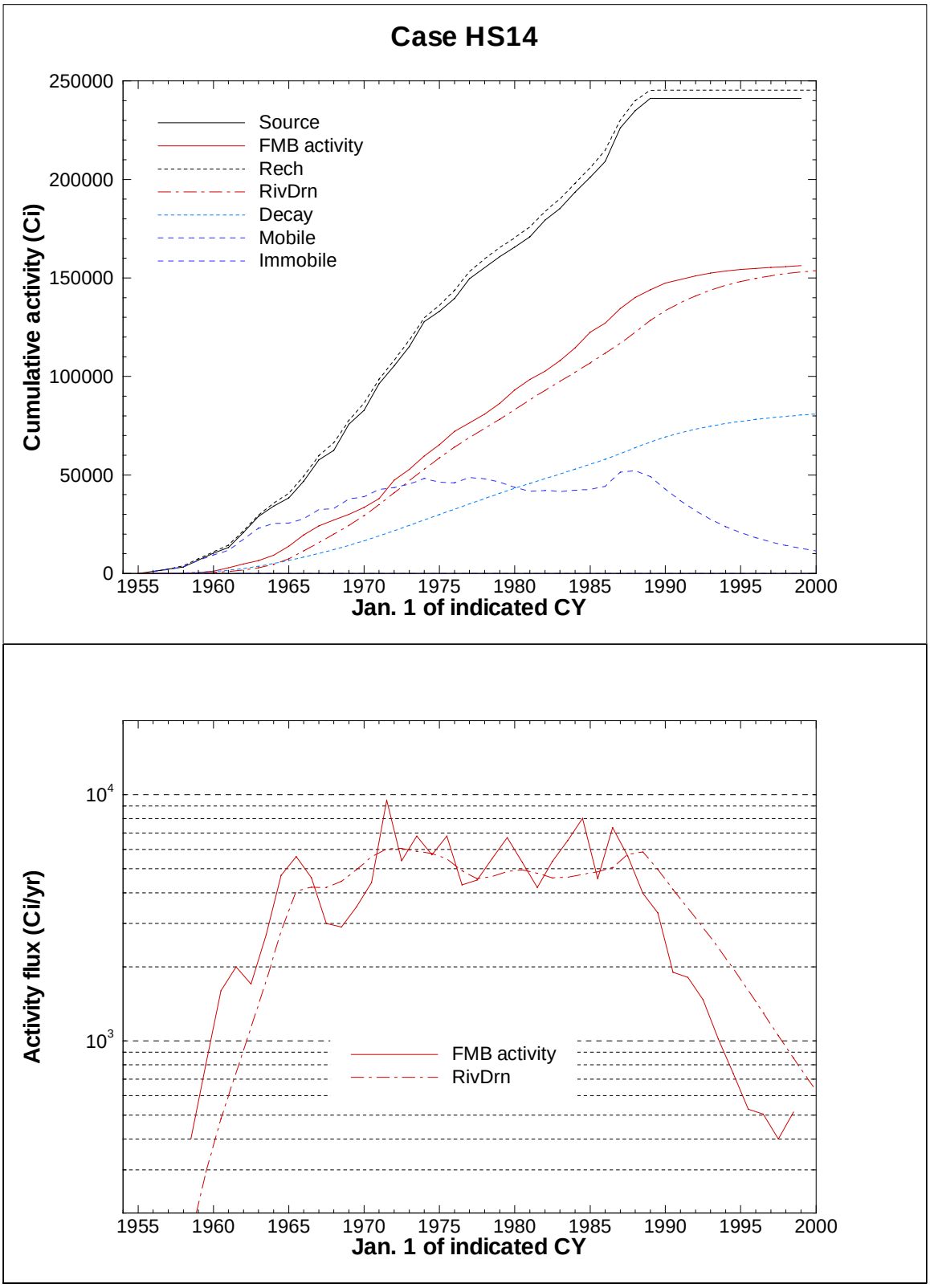

Case HS09
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

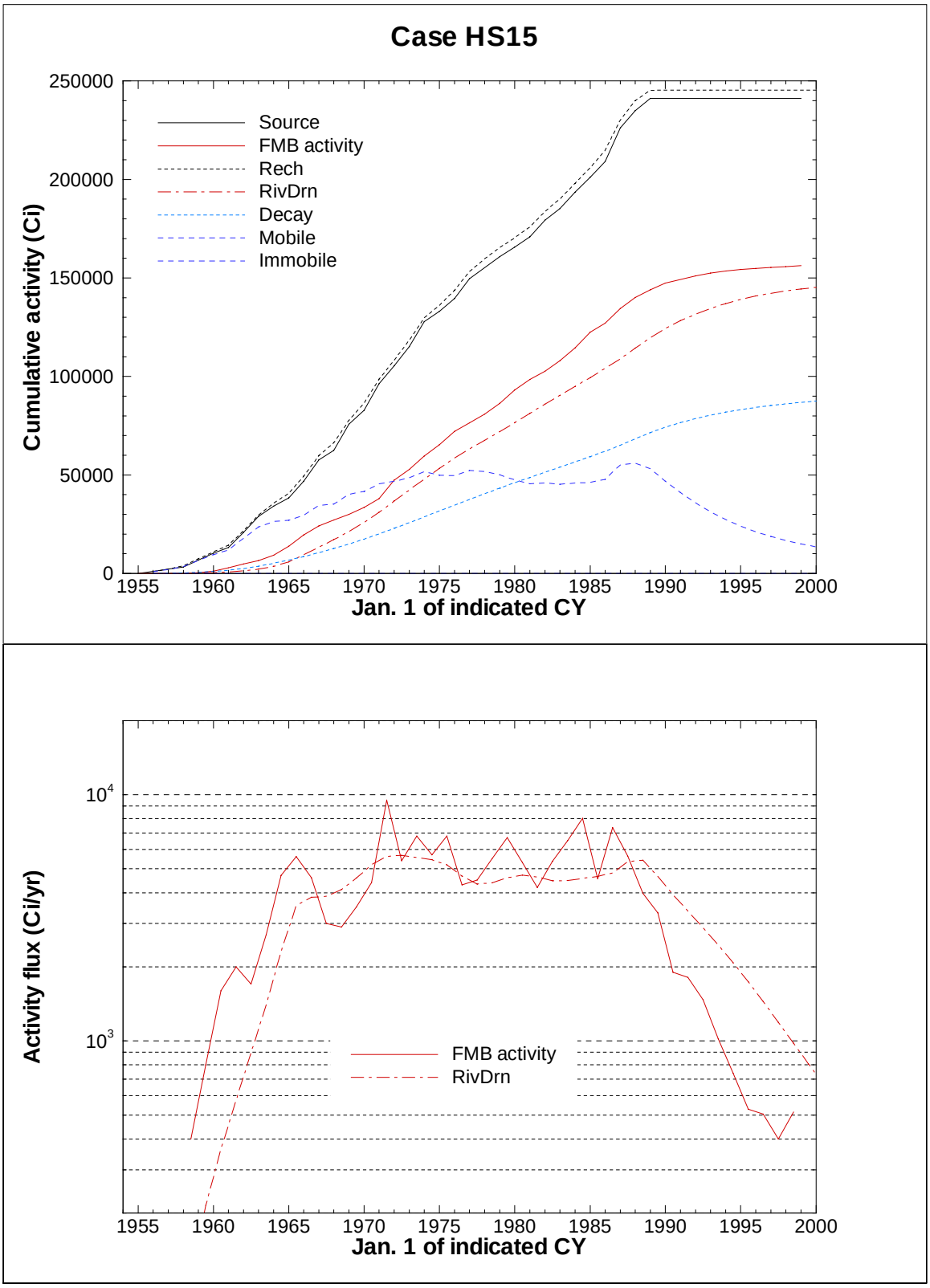

Case HS10
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

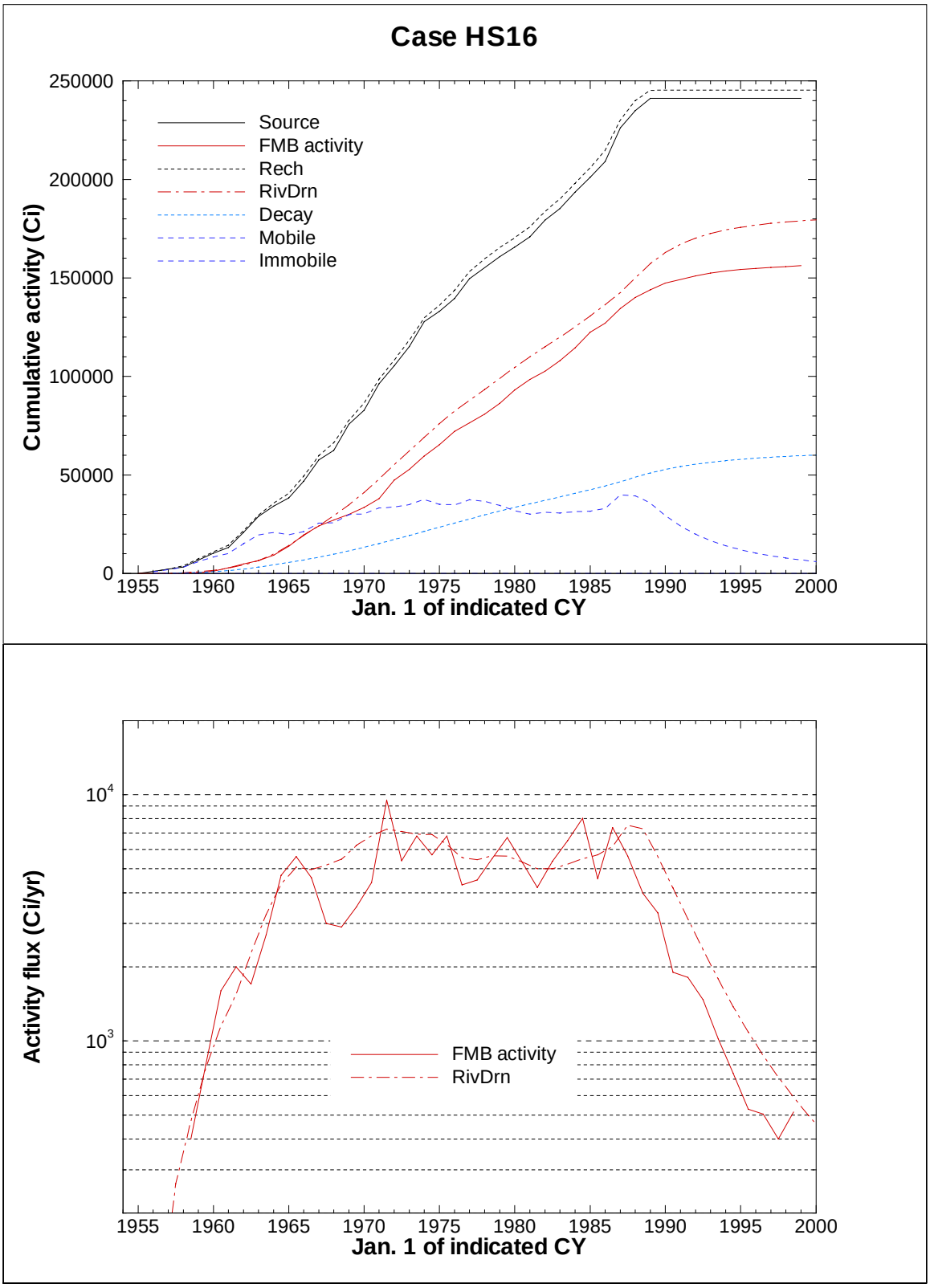

Case HS11
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

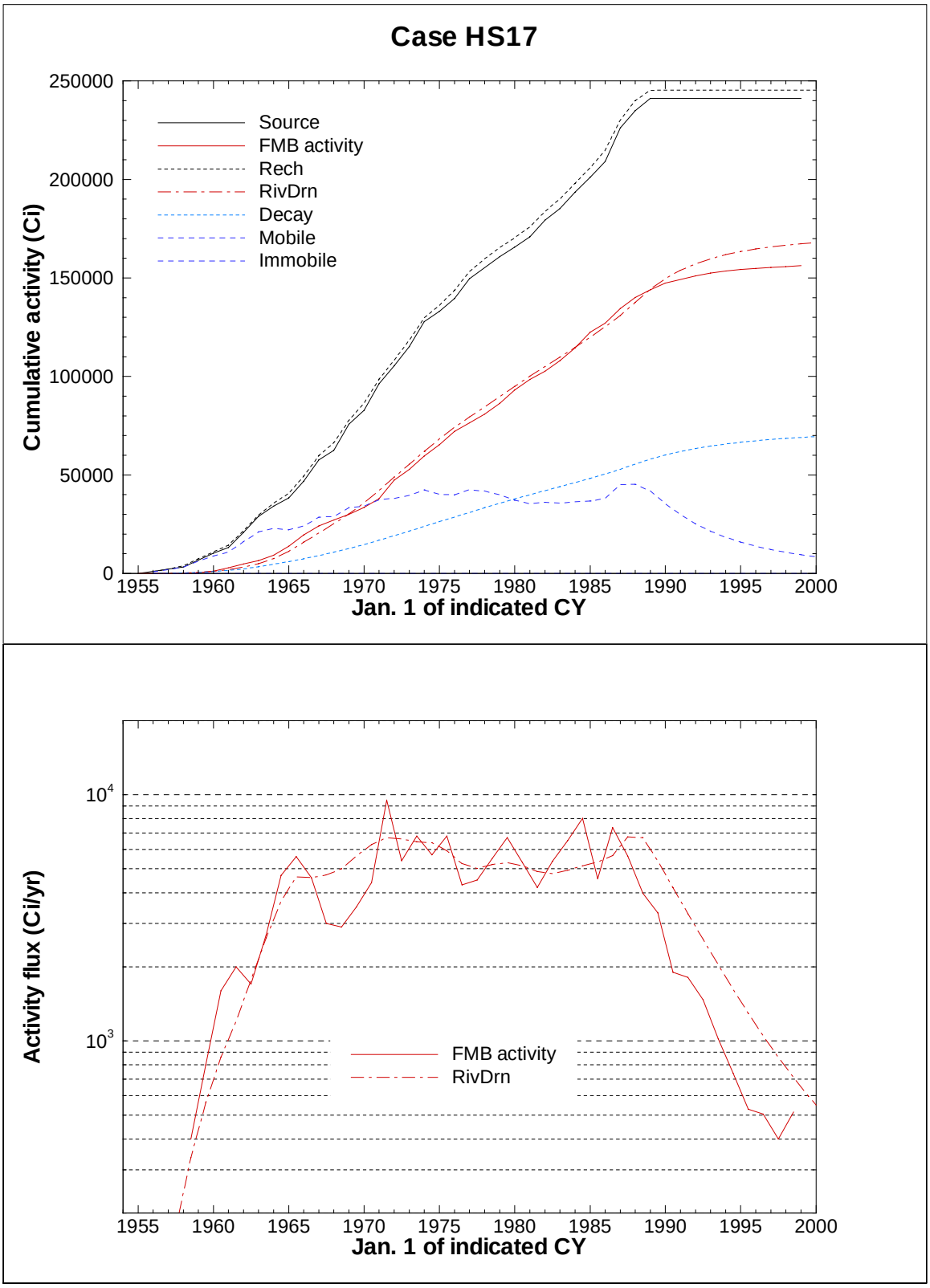

Case HS12
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

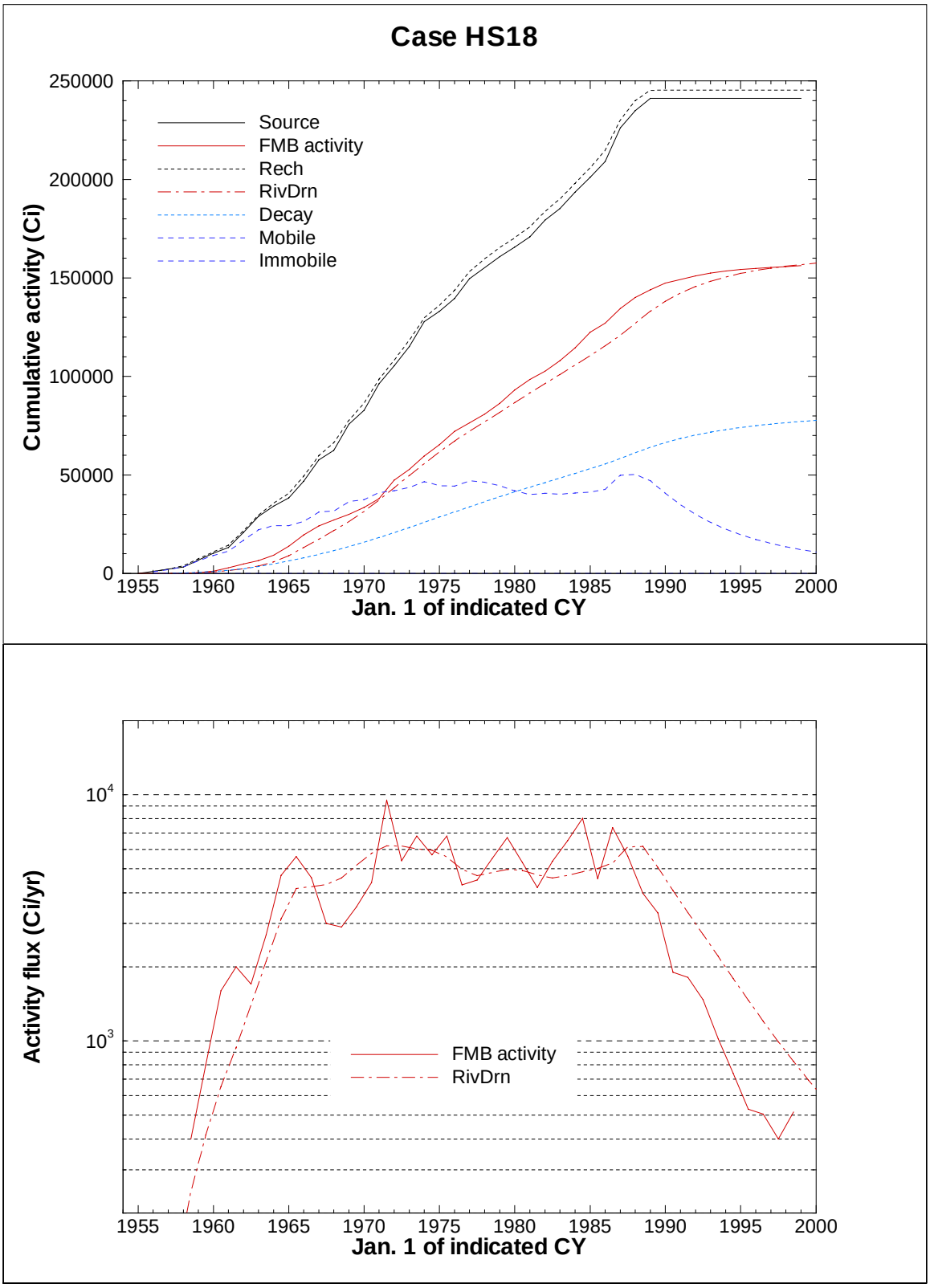

Case HS13
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

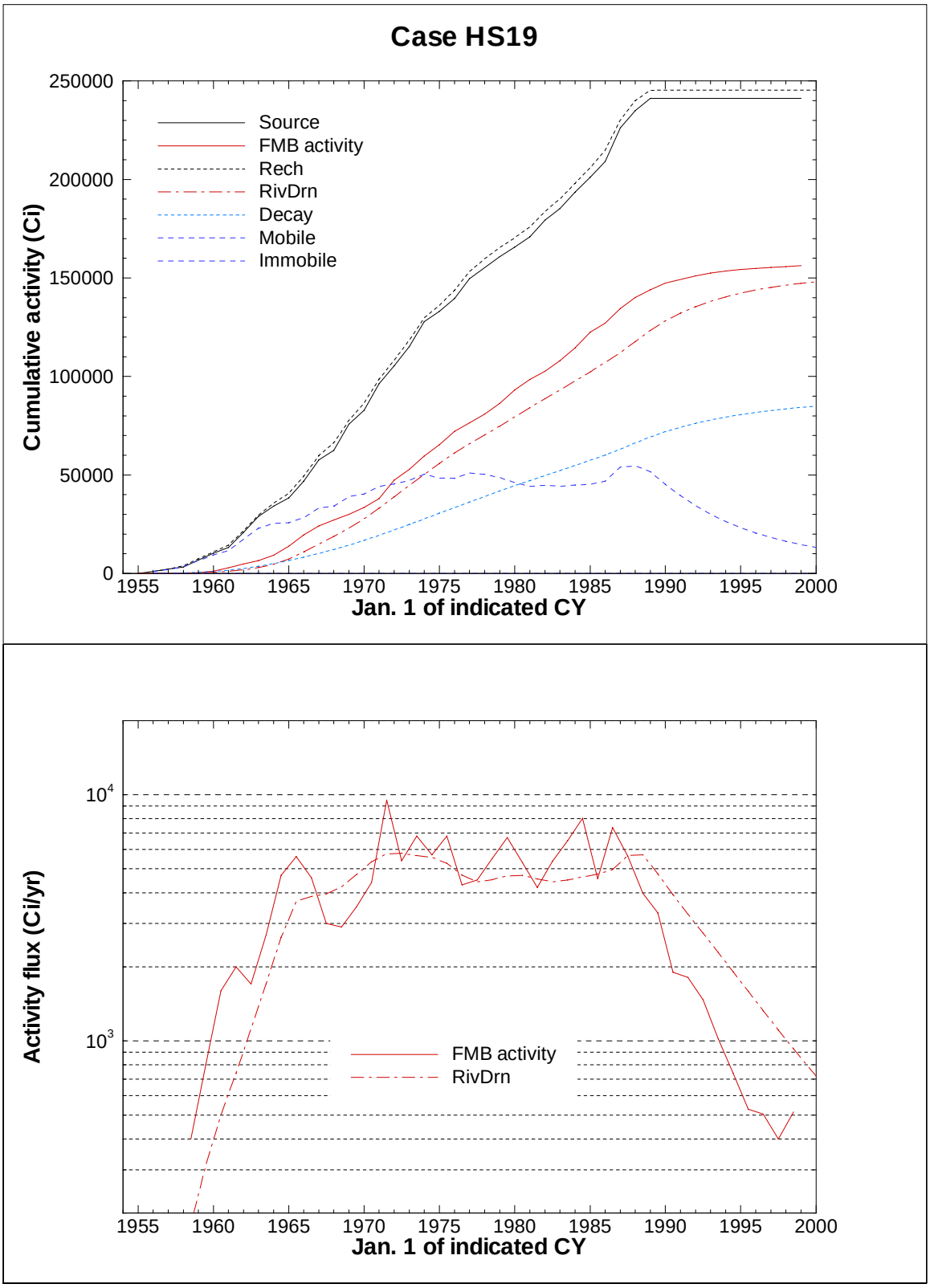

Case HS14
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

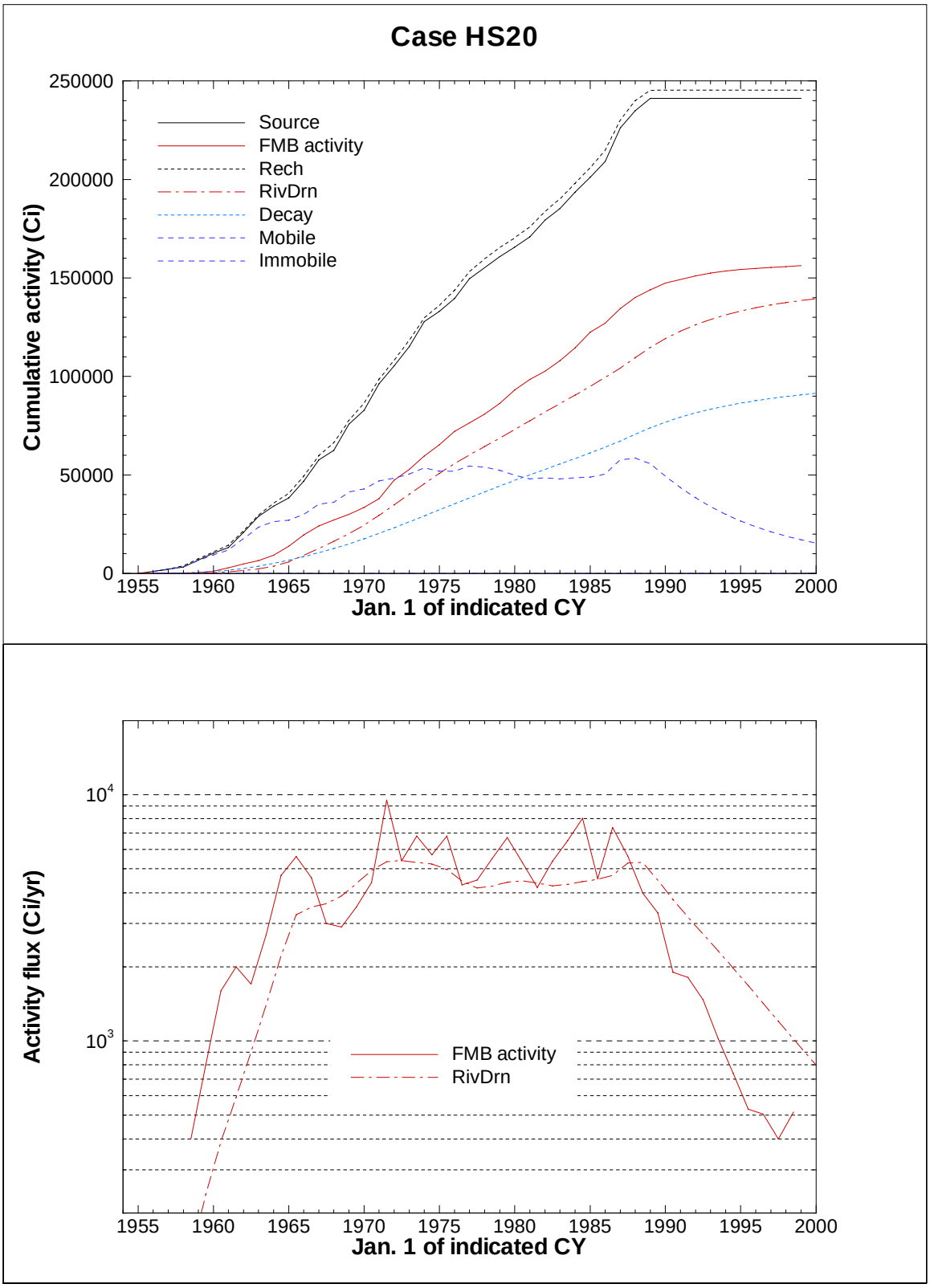

Case HS15
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

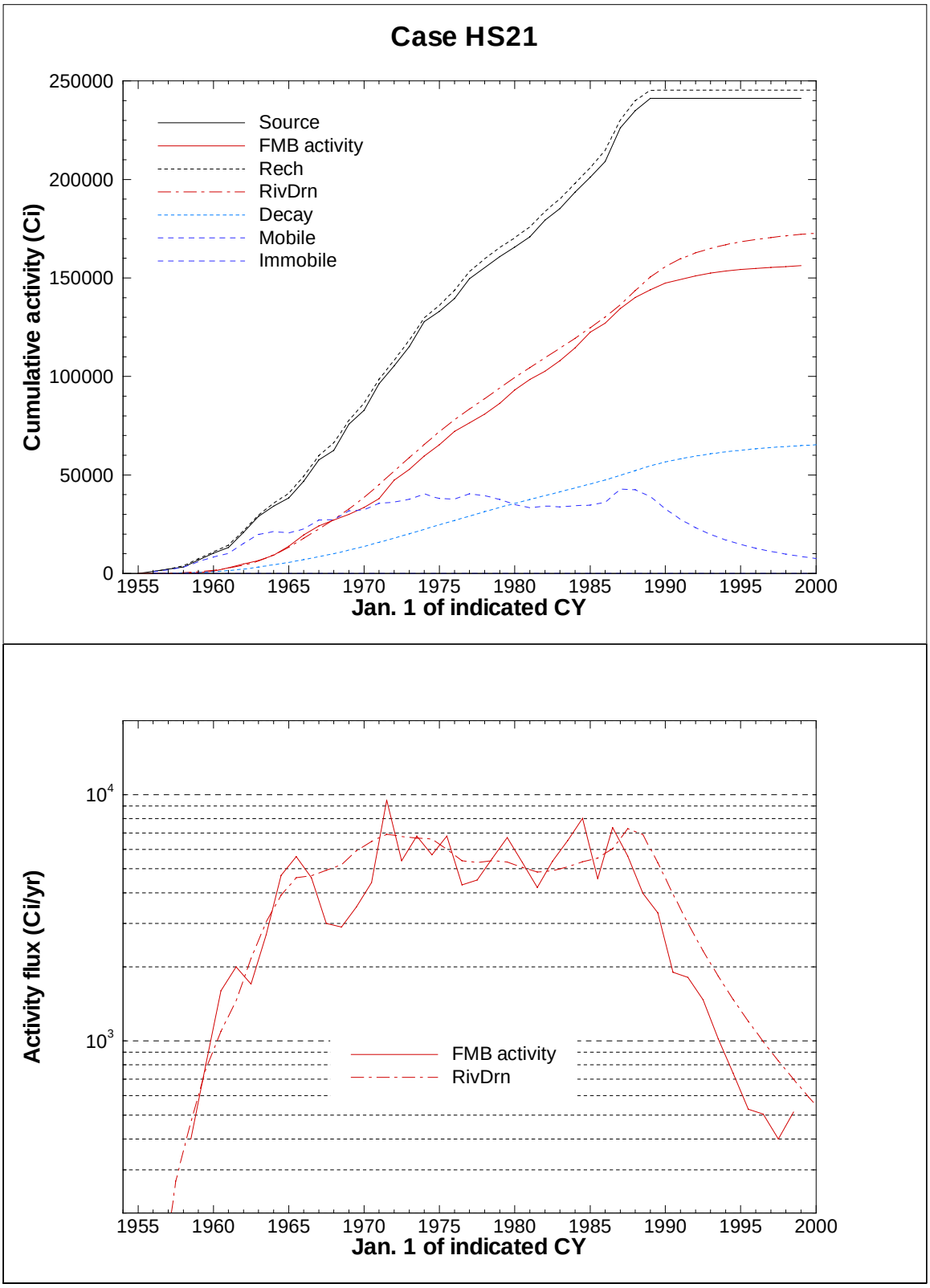

Case HS16
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

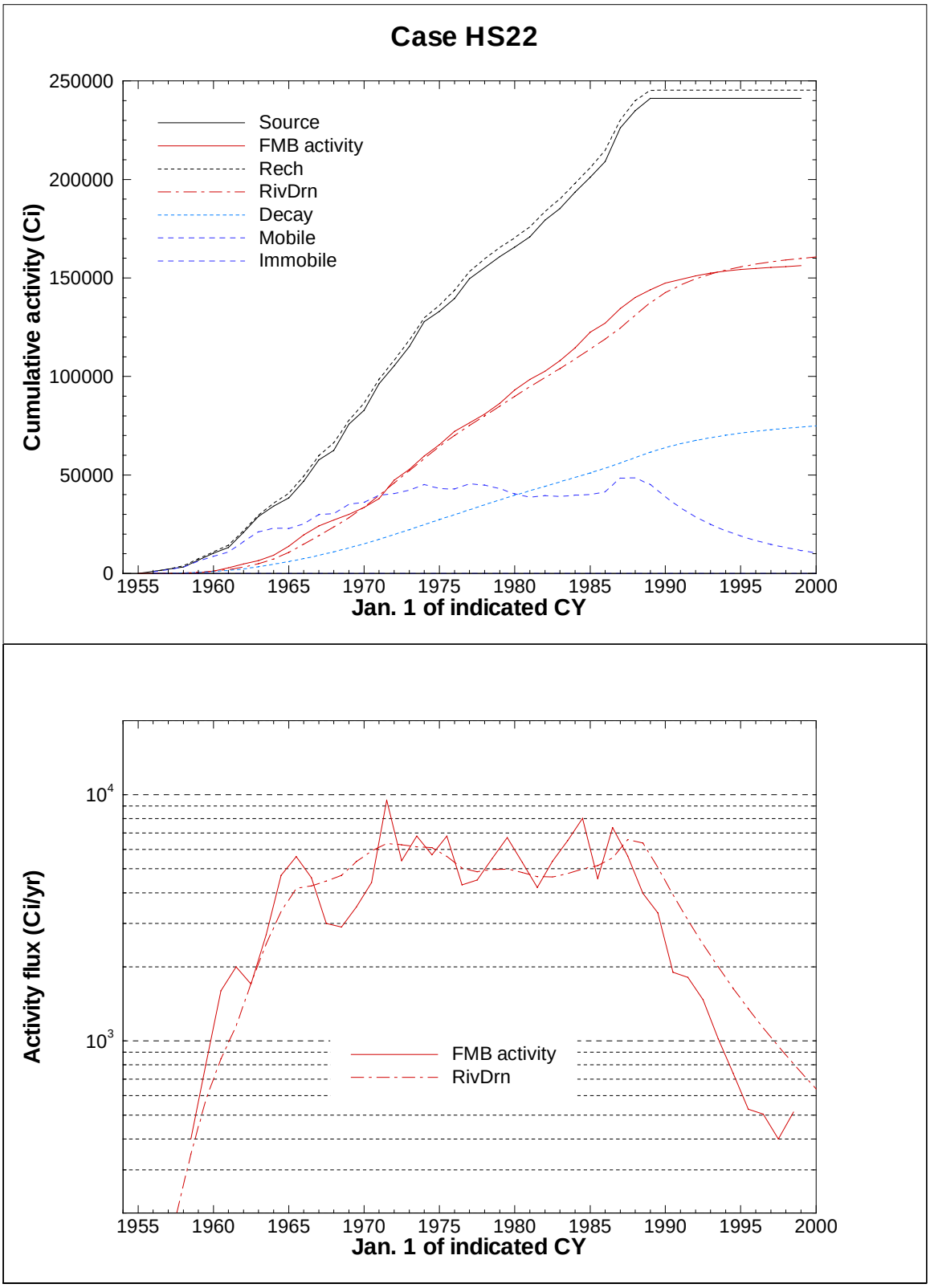

Case HS17
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

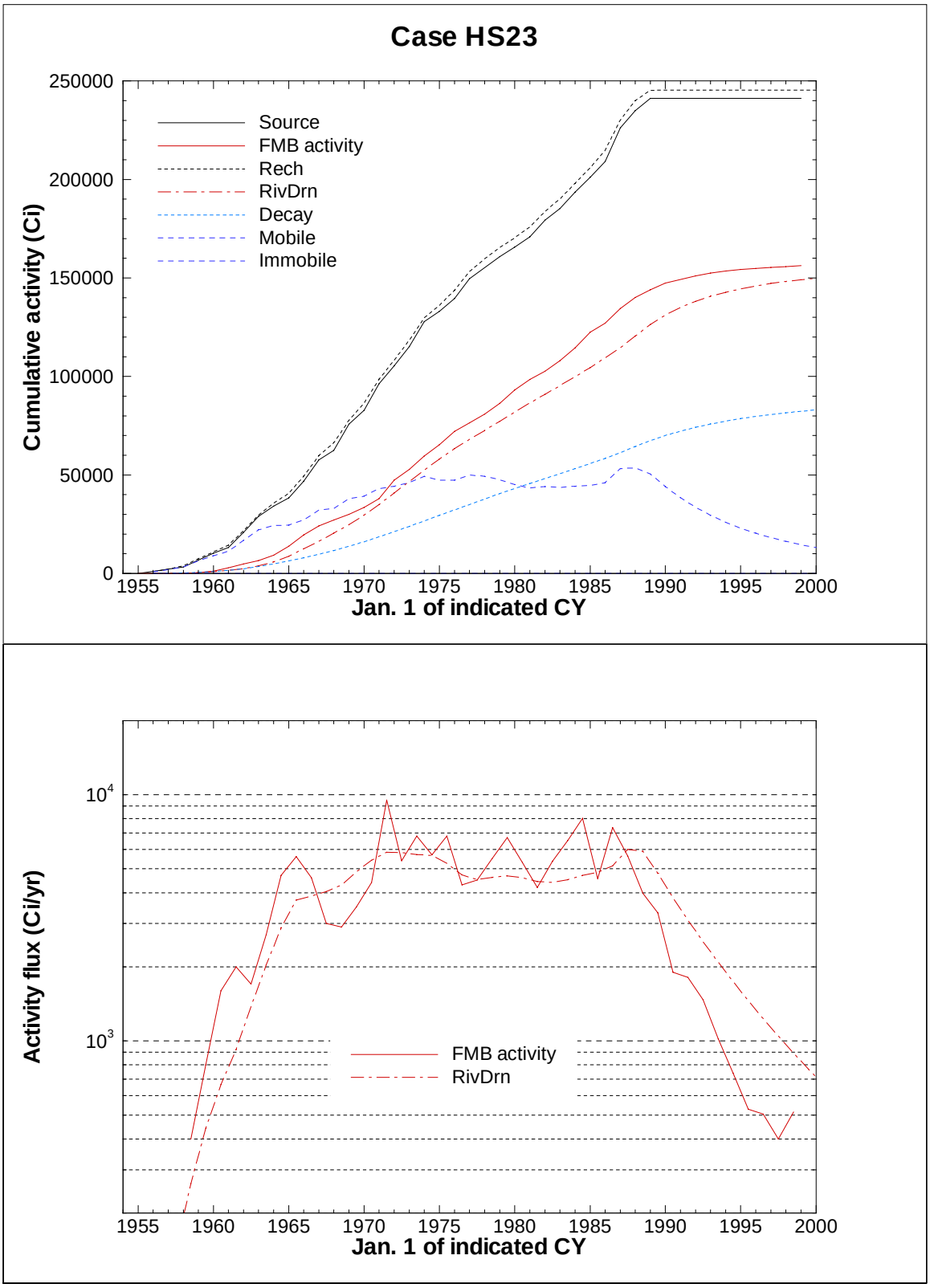

Case HS18
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

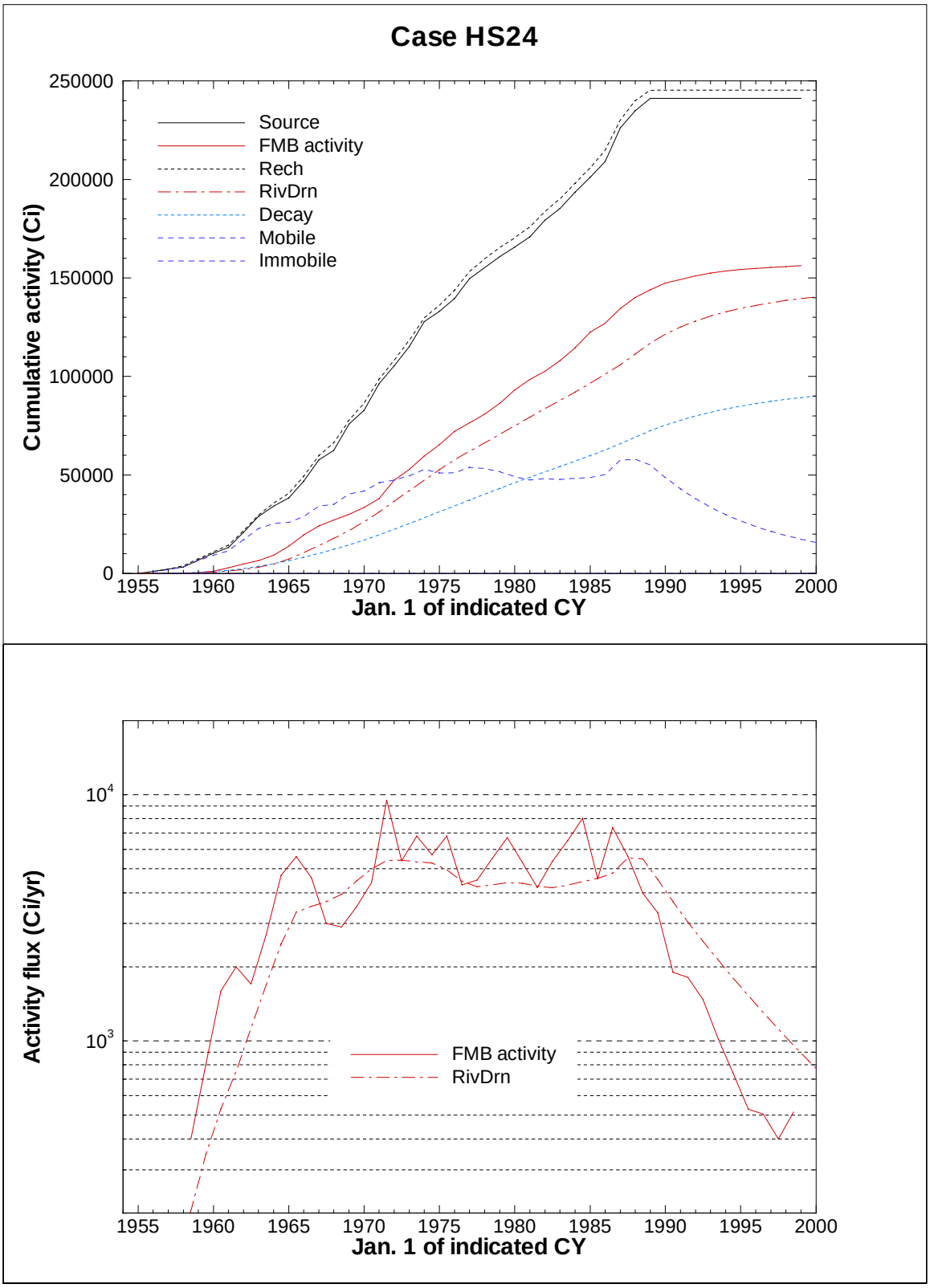

Case HS19
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

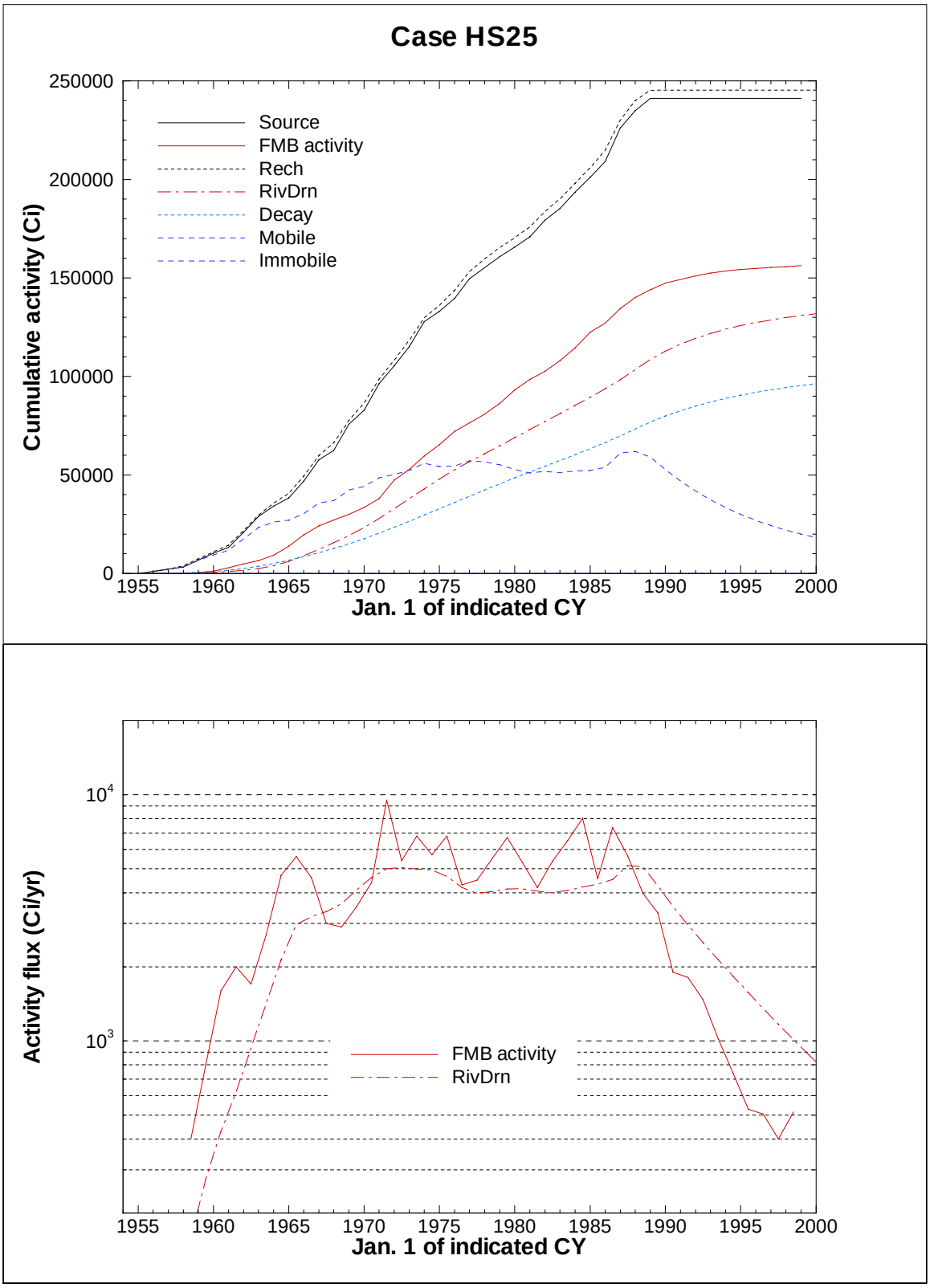

Case HS20
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

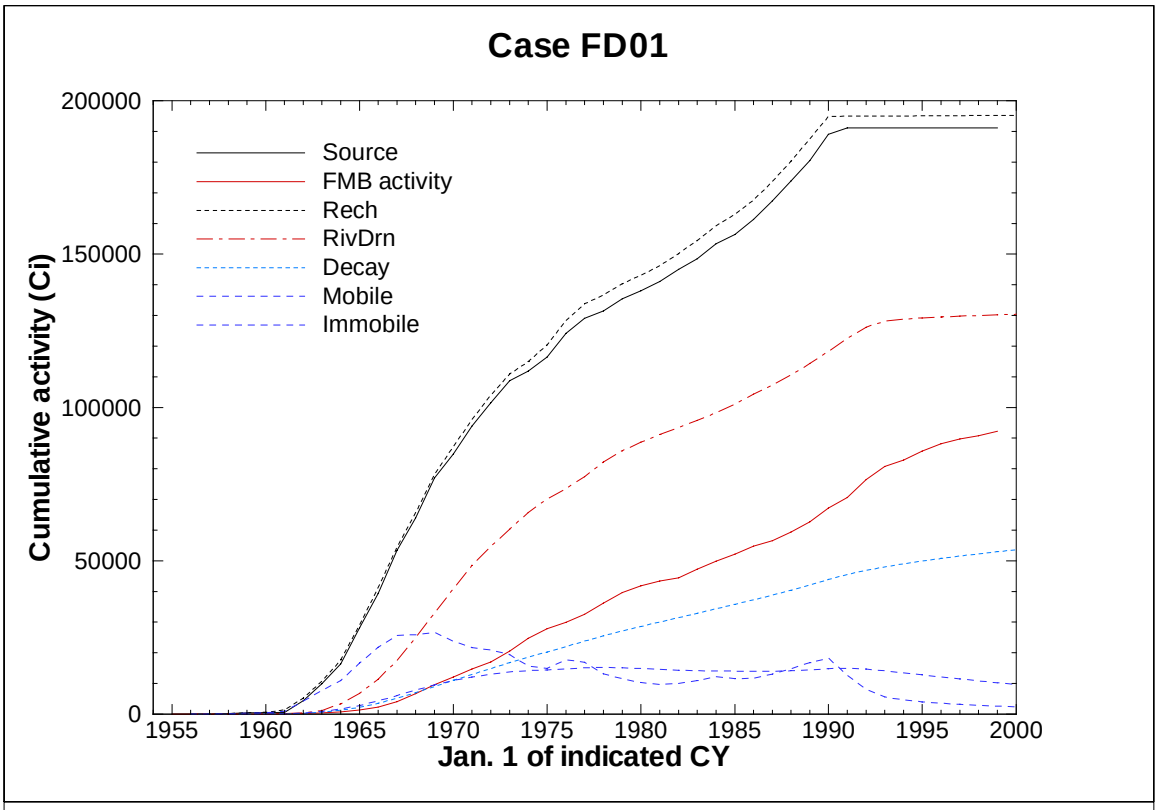

Case HS21
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

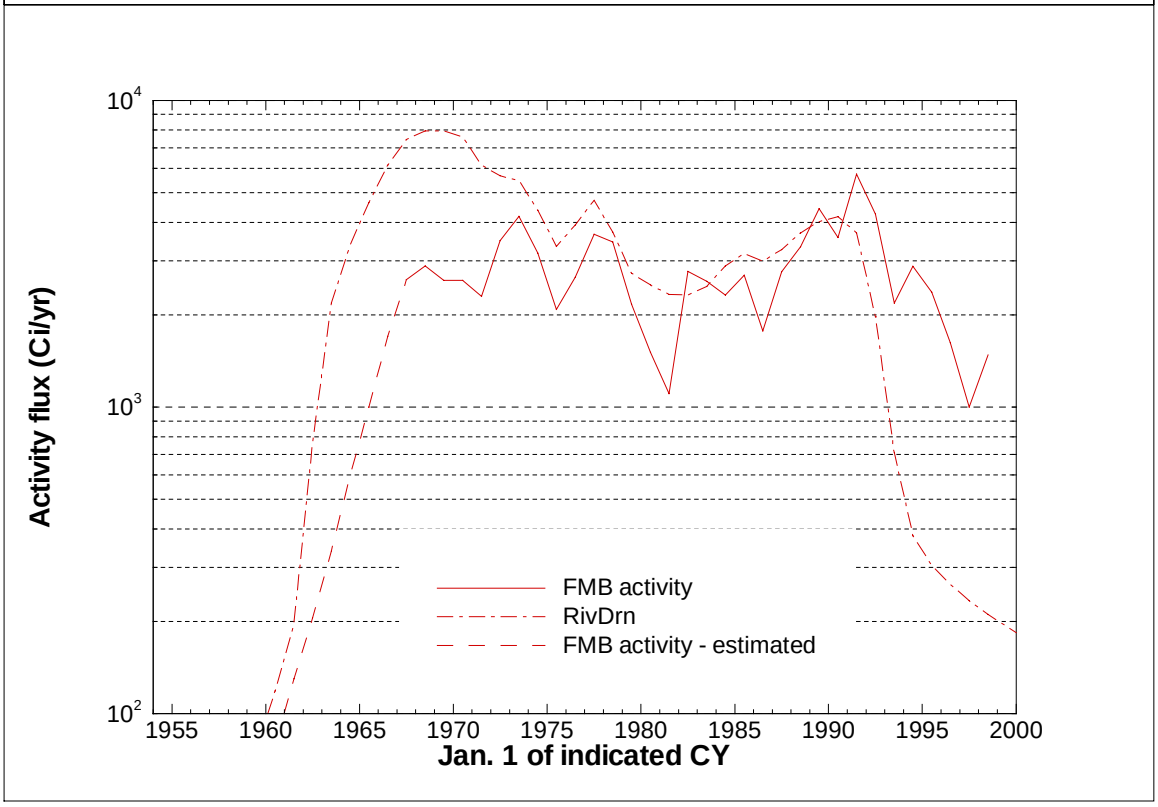

Case HS22
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

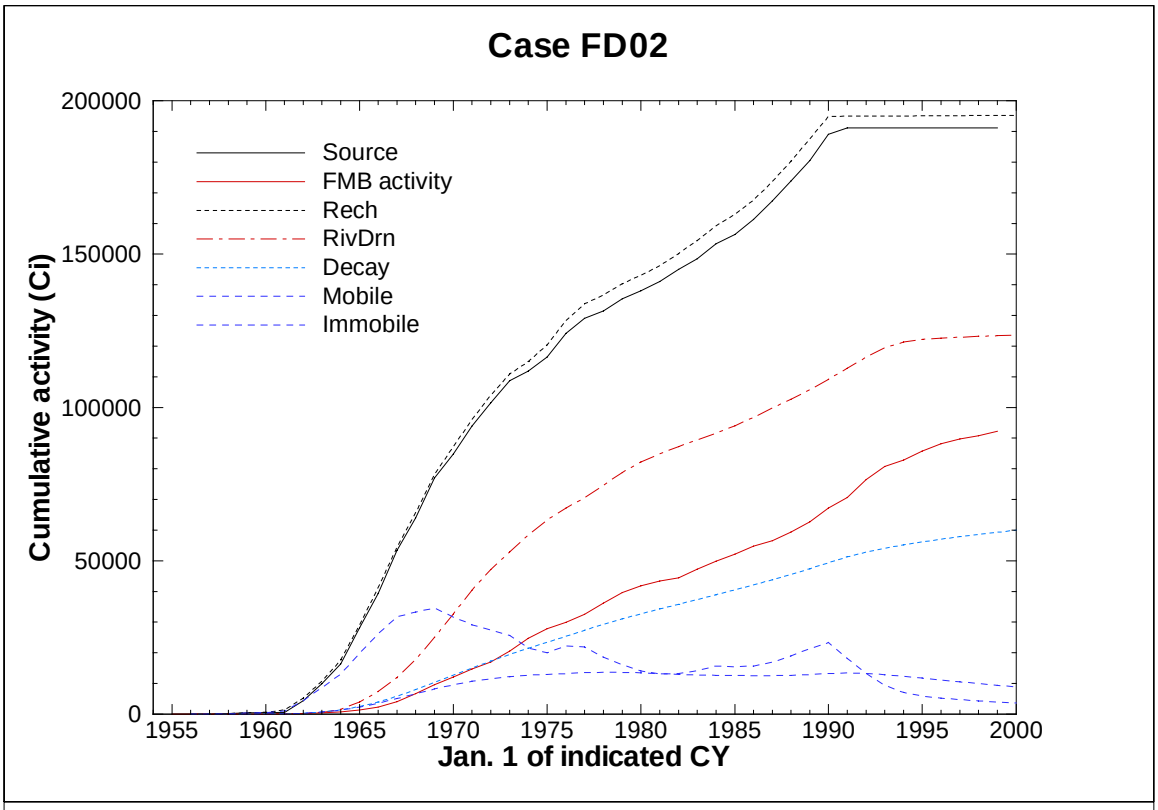

Case HS23
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

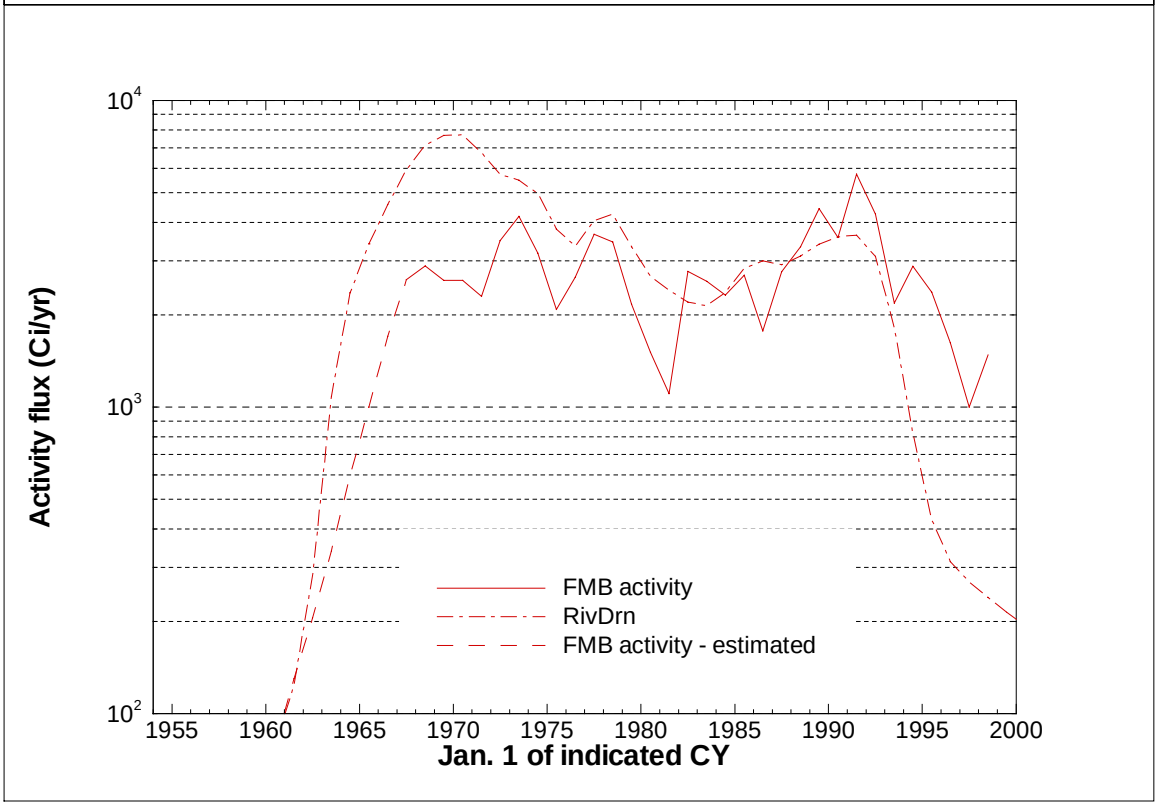

Case HS24
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

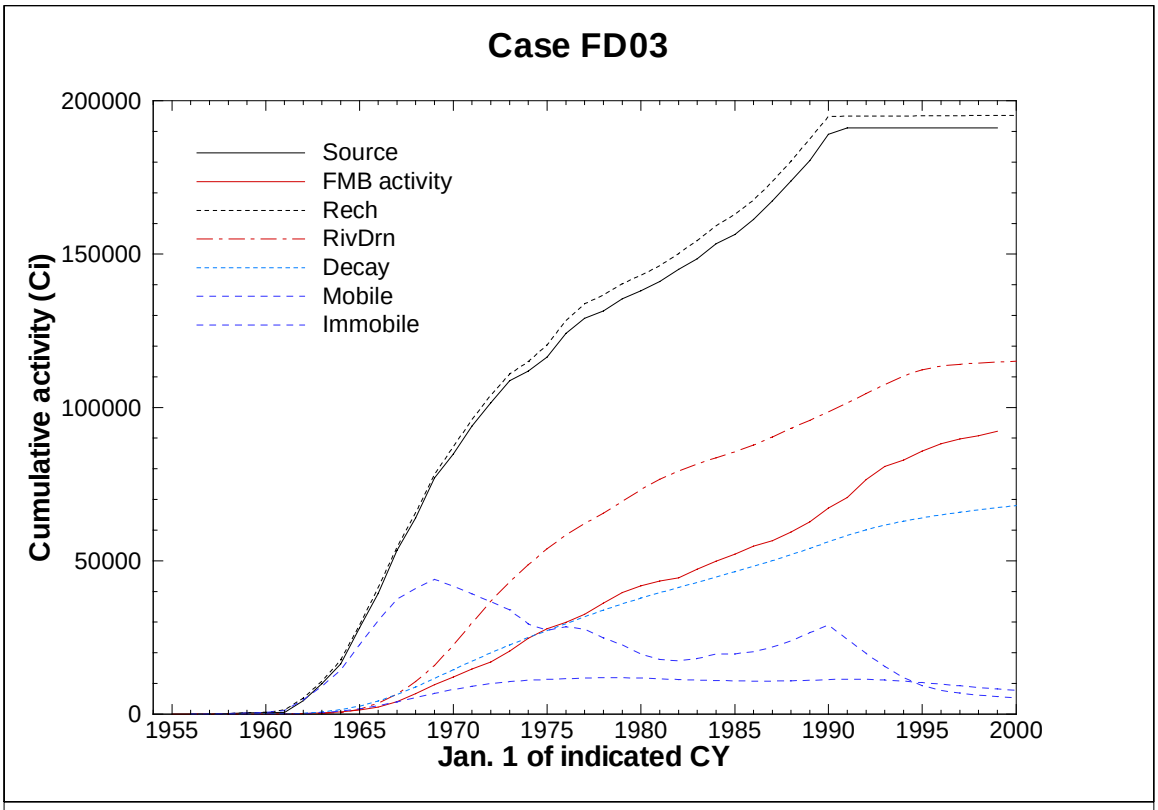

Case HS25
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

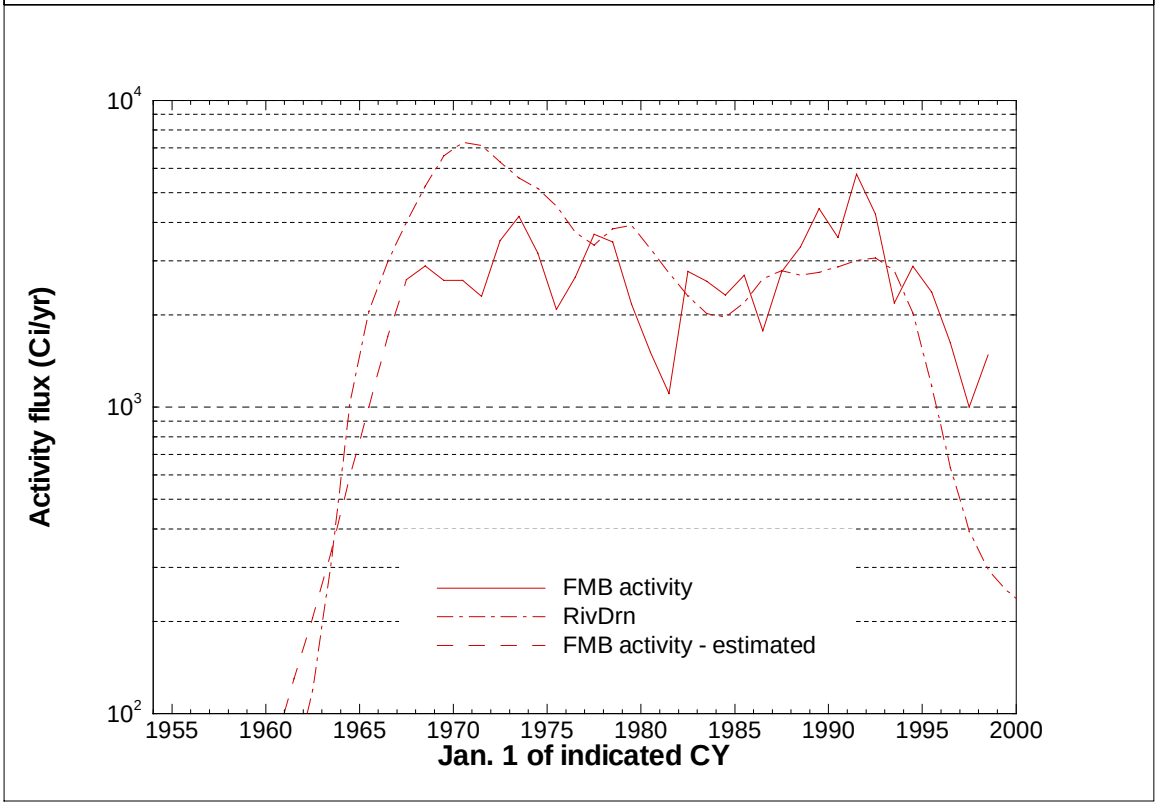

Case FD01
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

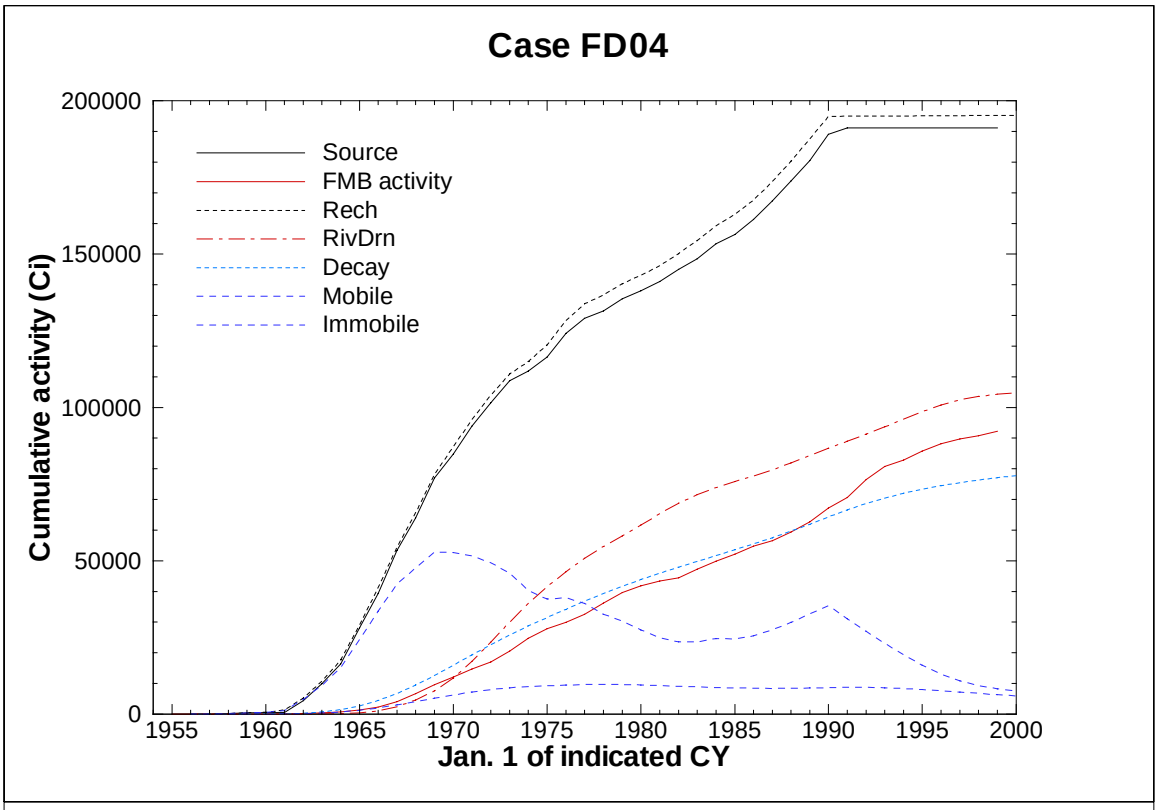

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

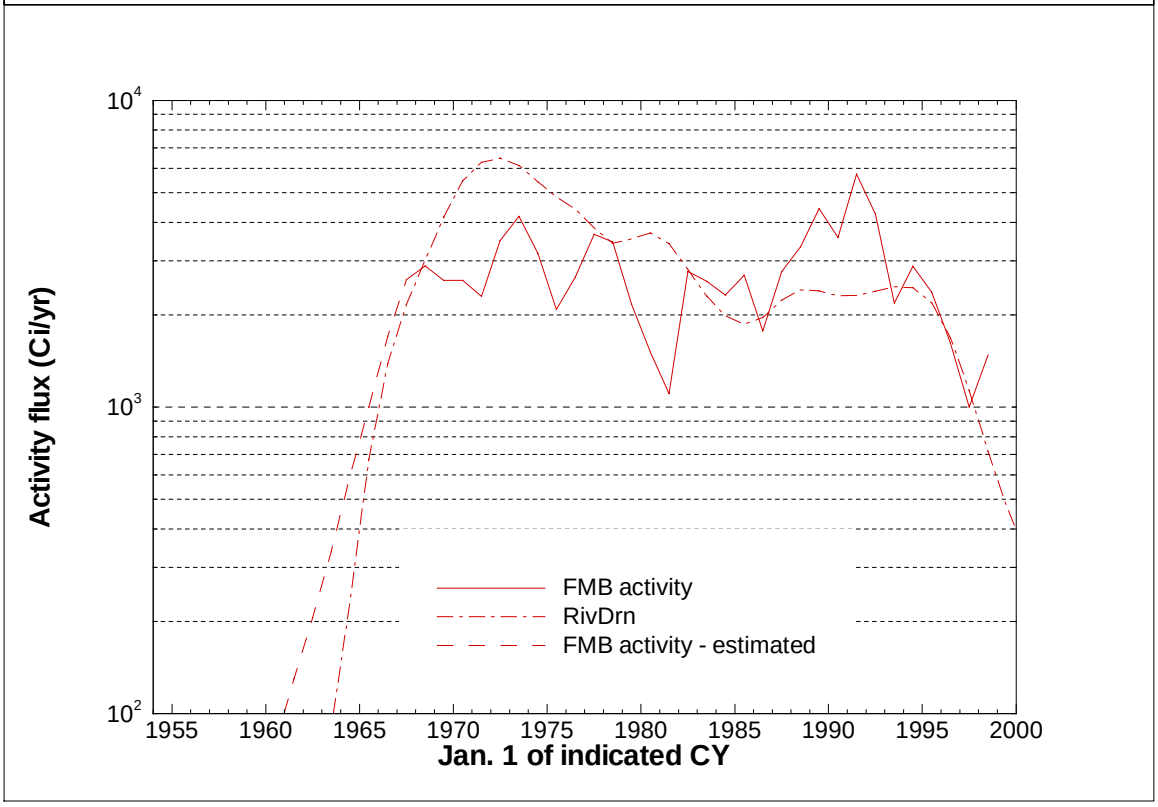

Case FD02
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

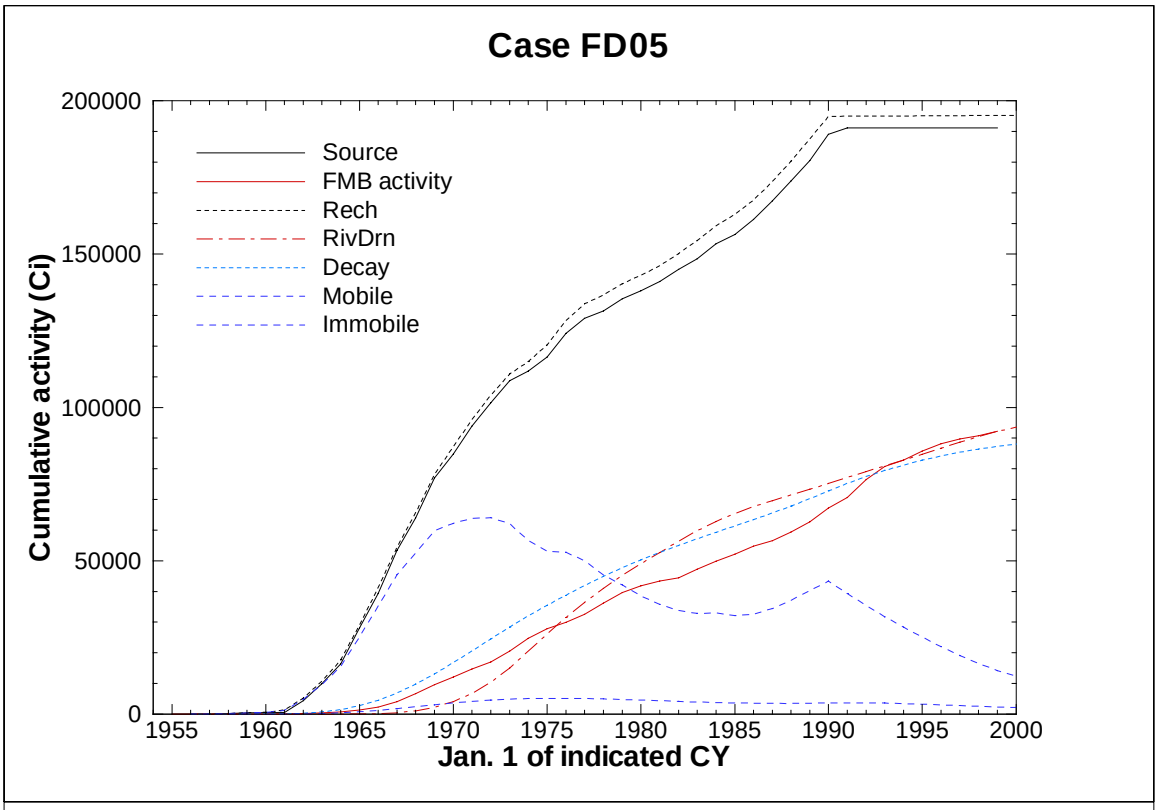

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

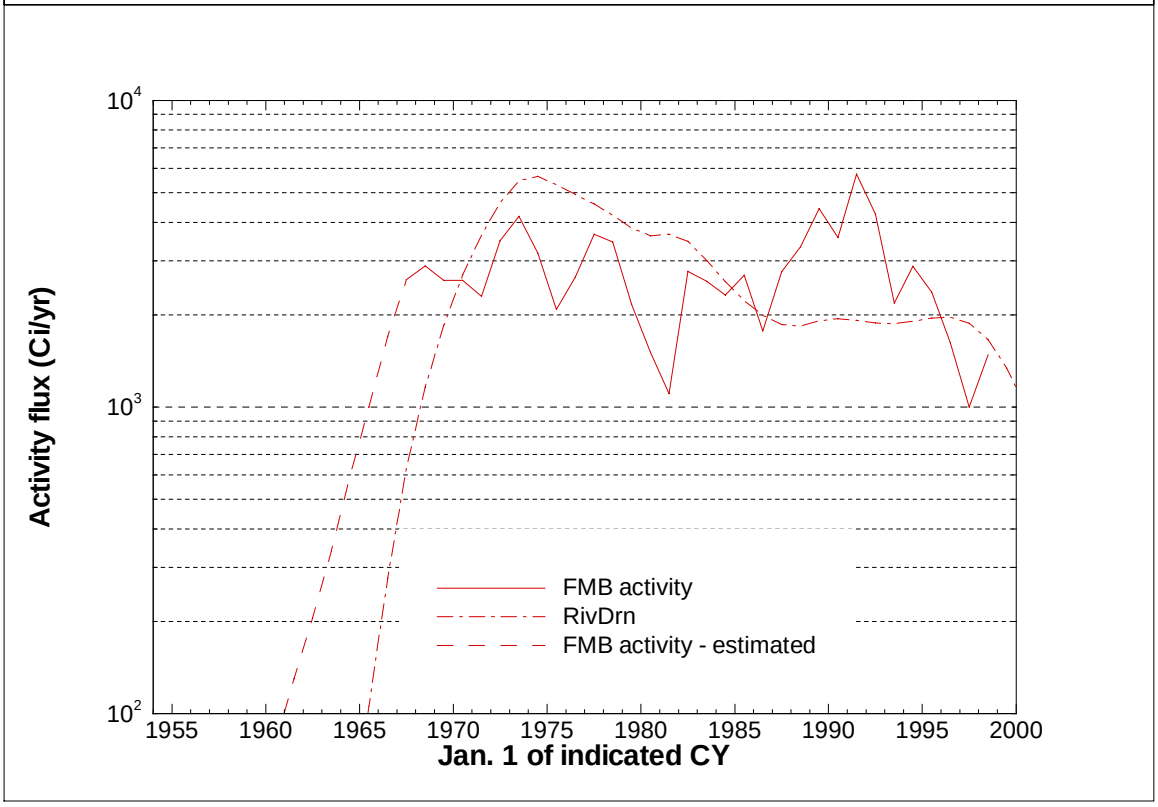

Case FD03
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

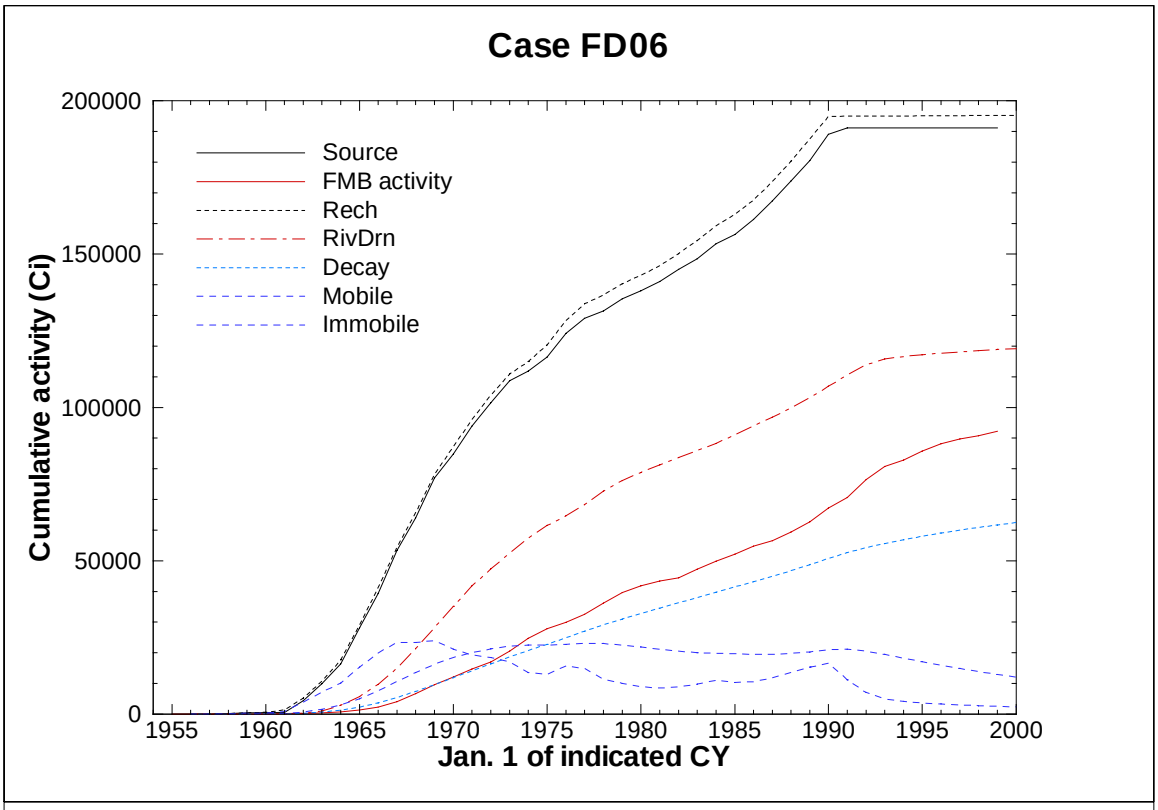

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

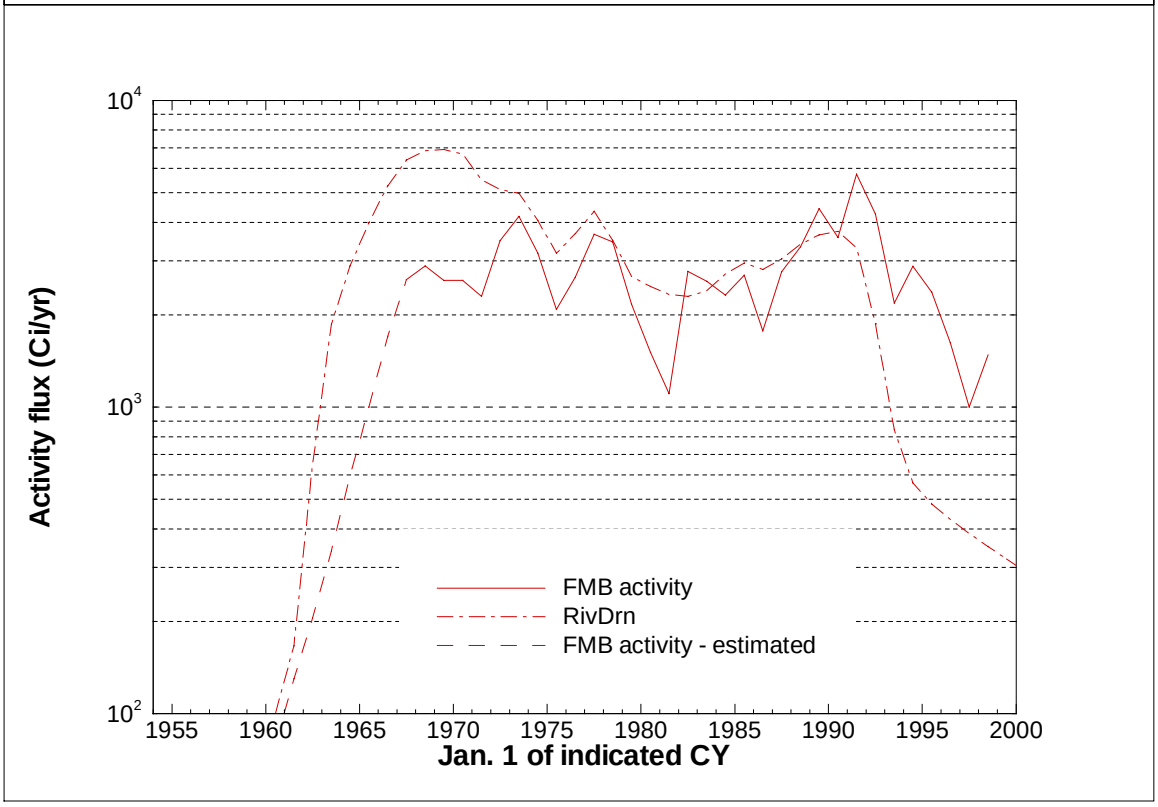

Case FD04
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

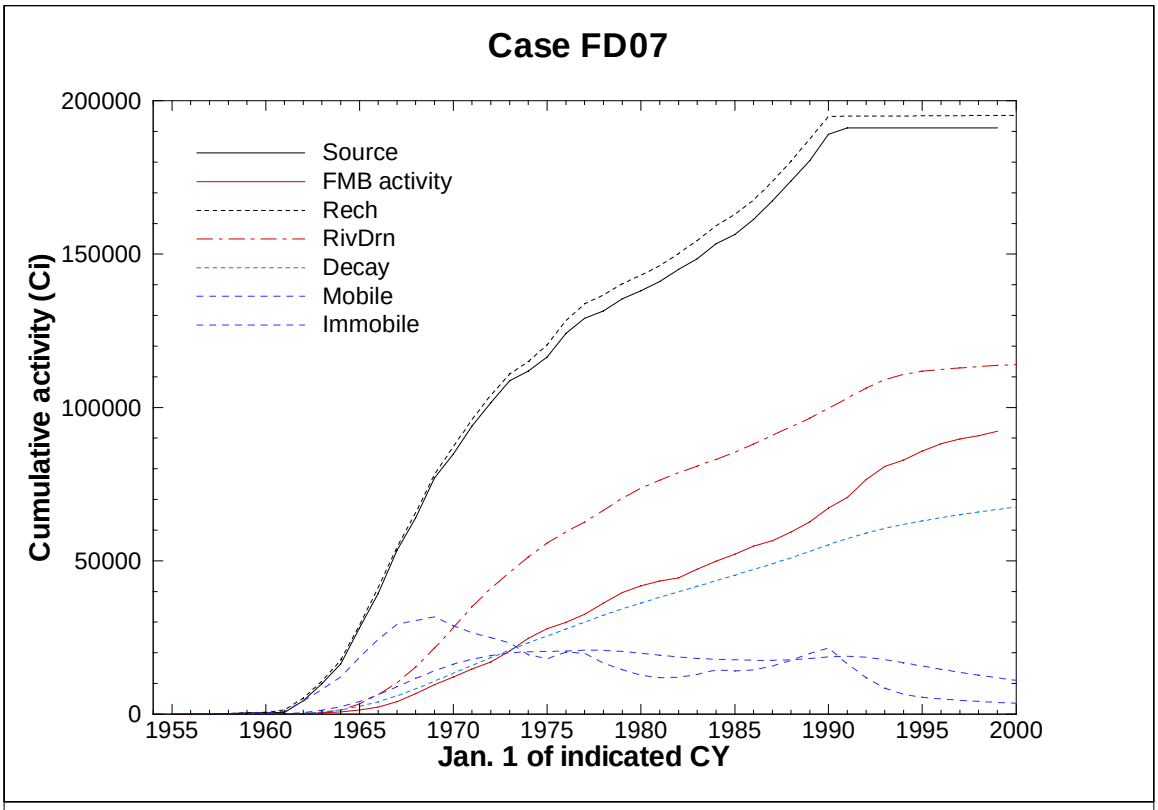

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

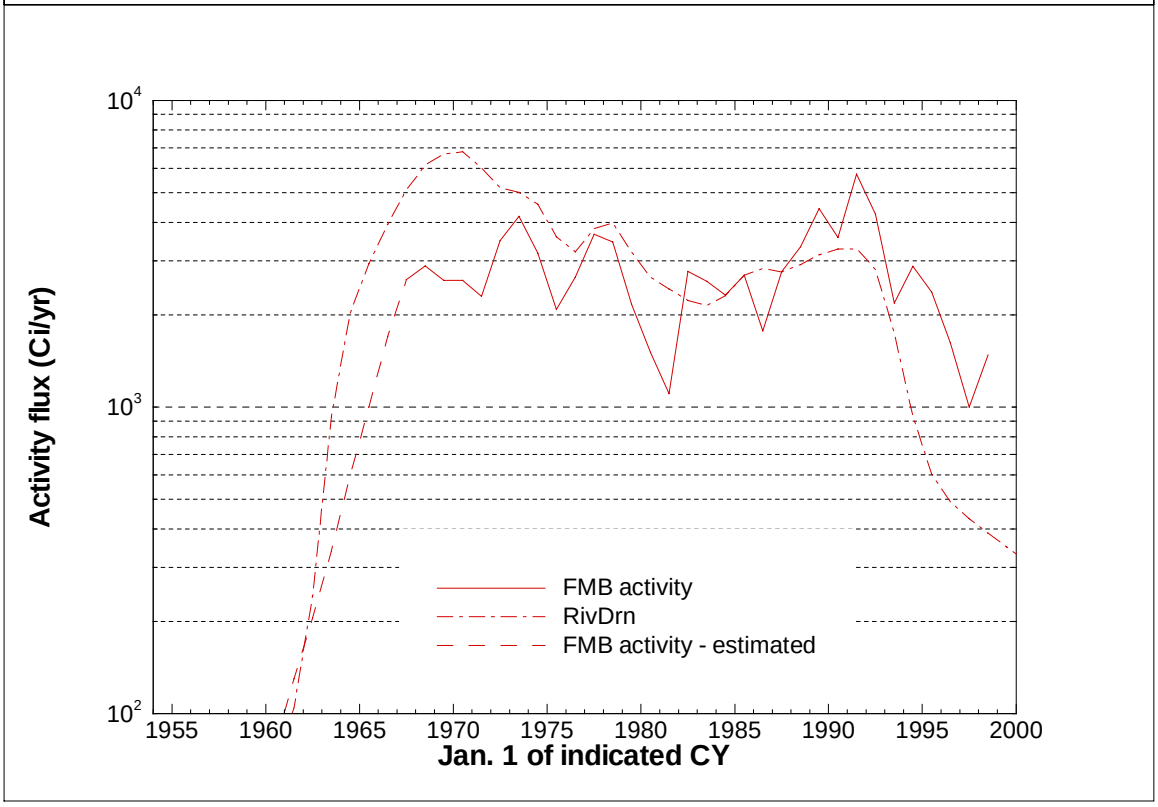

Case FD05
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

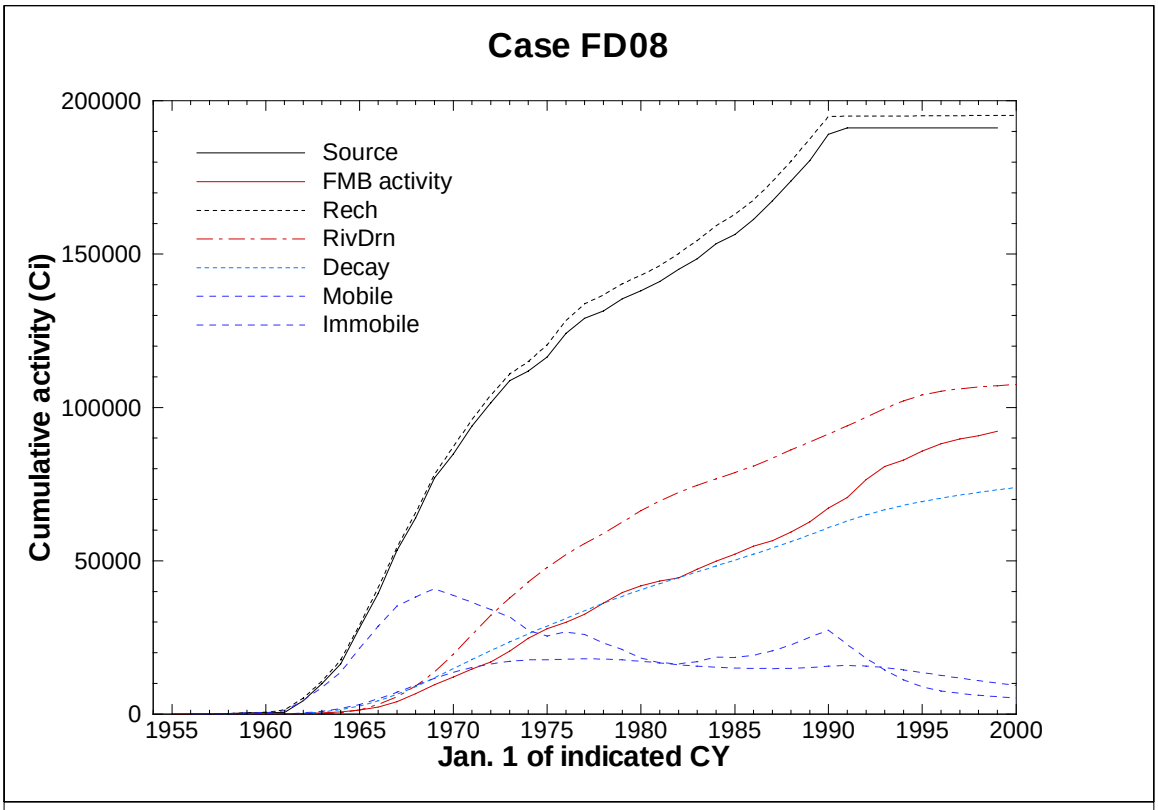

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

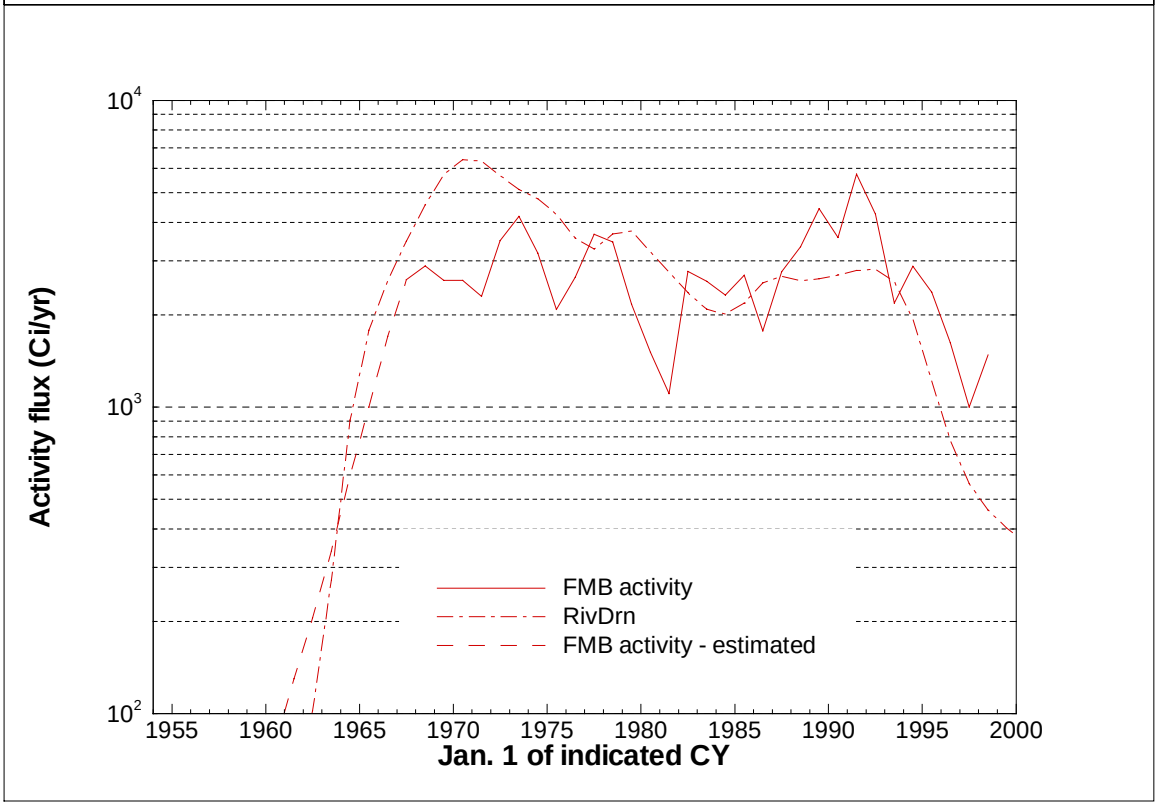

Case FD06
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

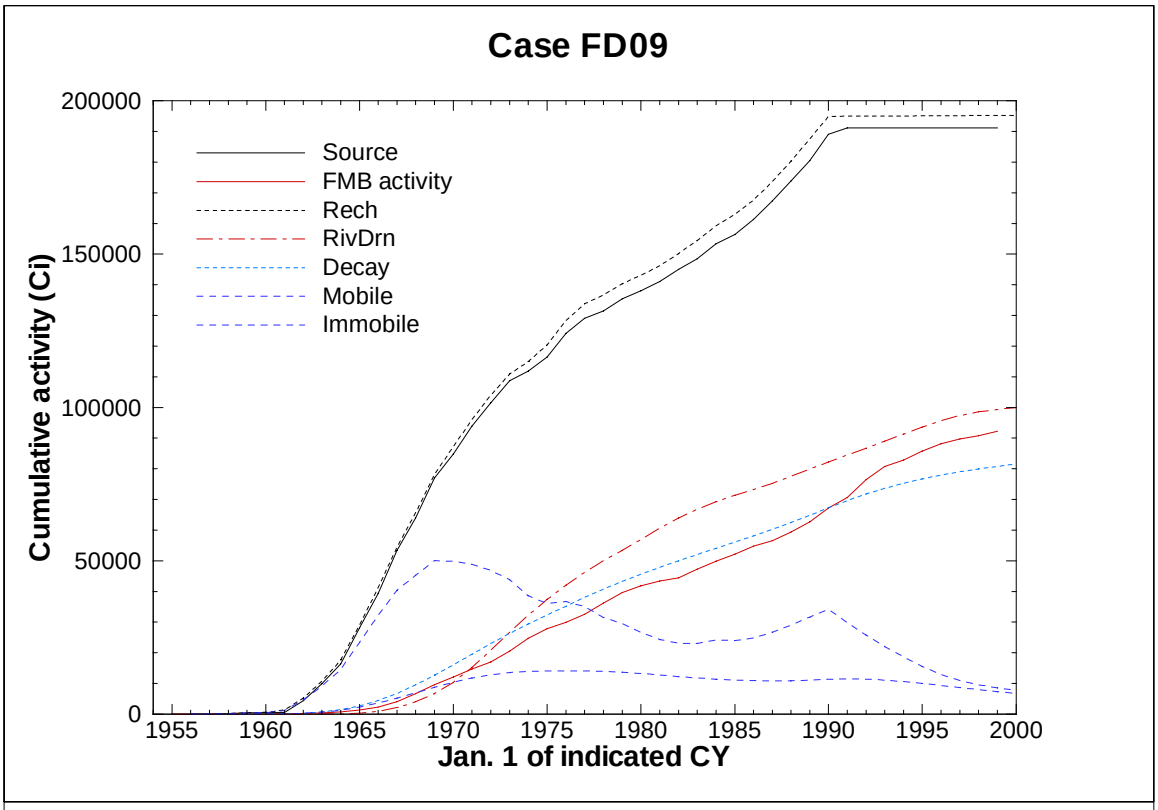

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

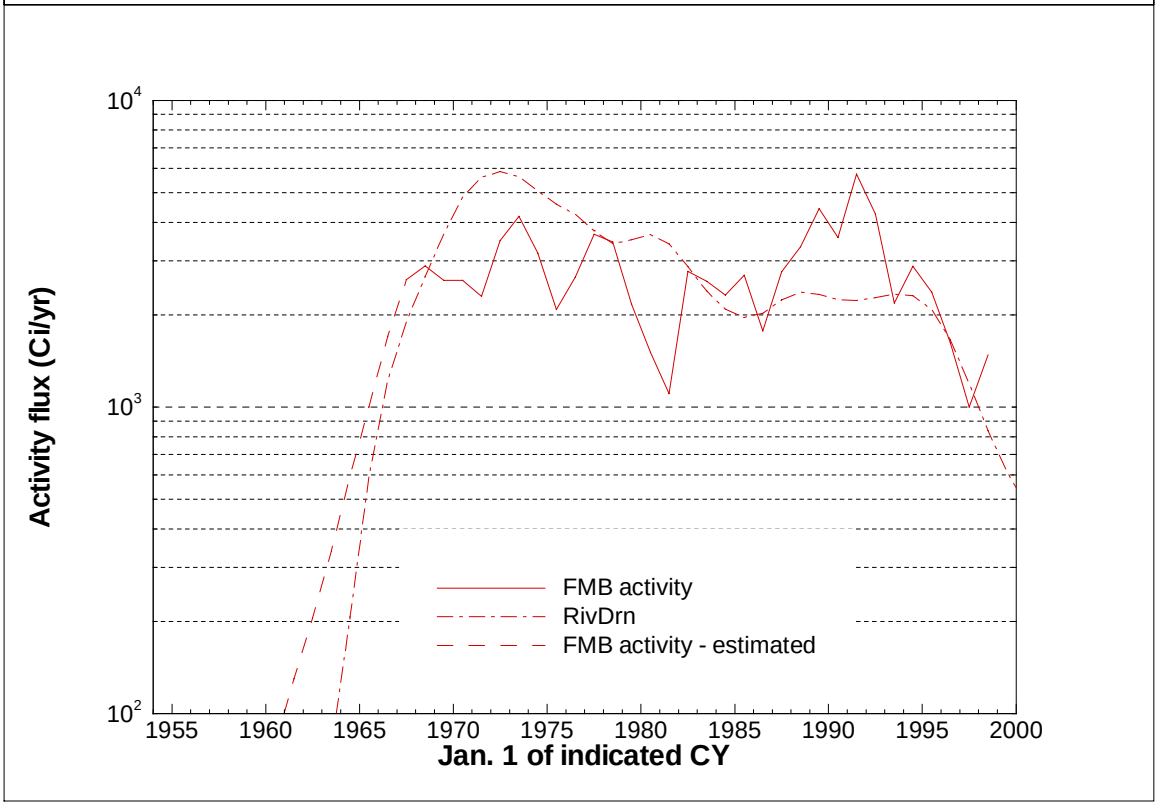

Case FD07
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

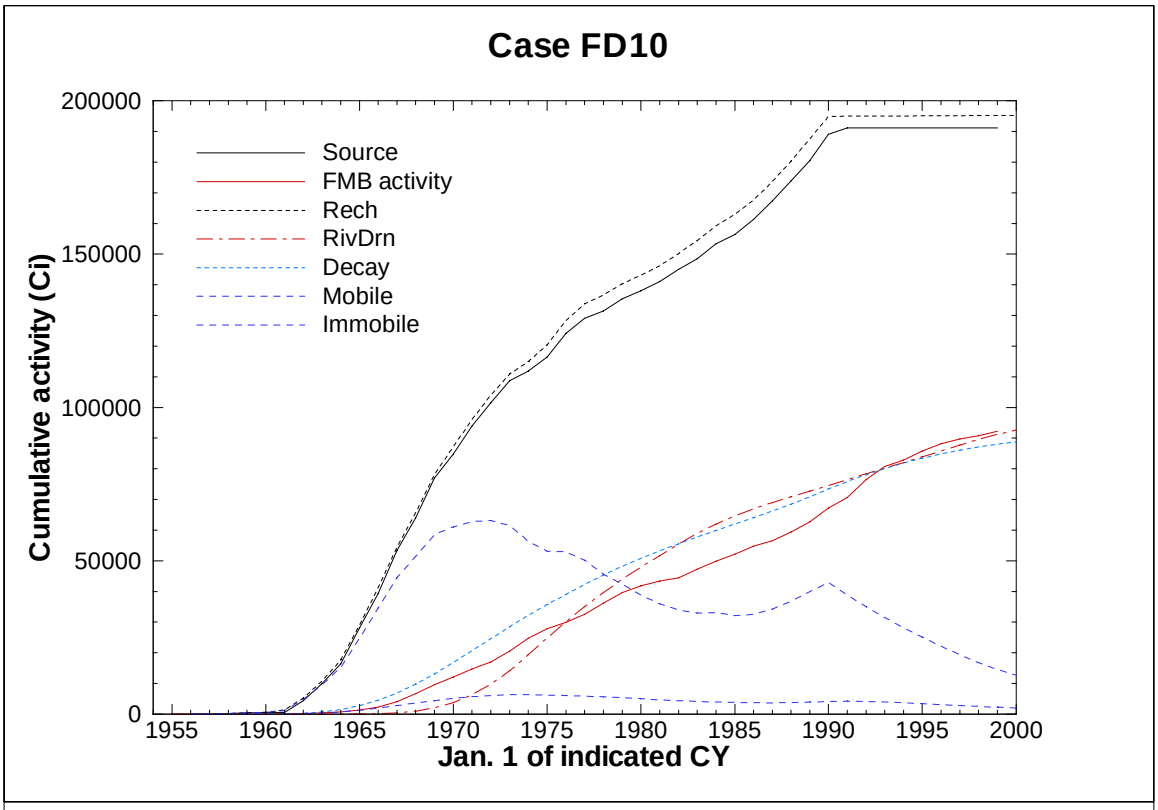

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

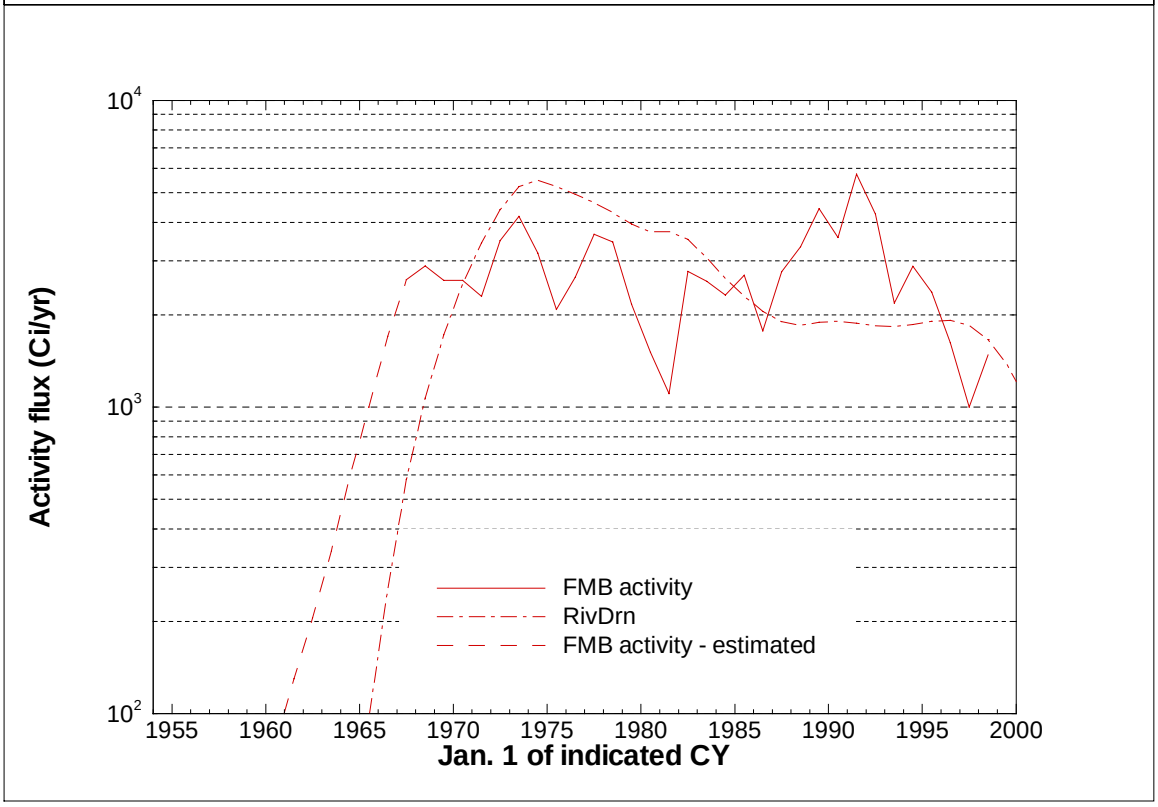

Case FD08
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

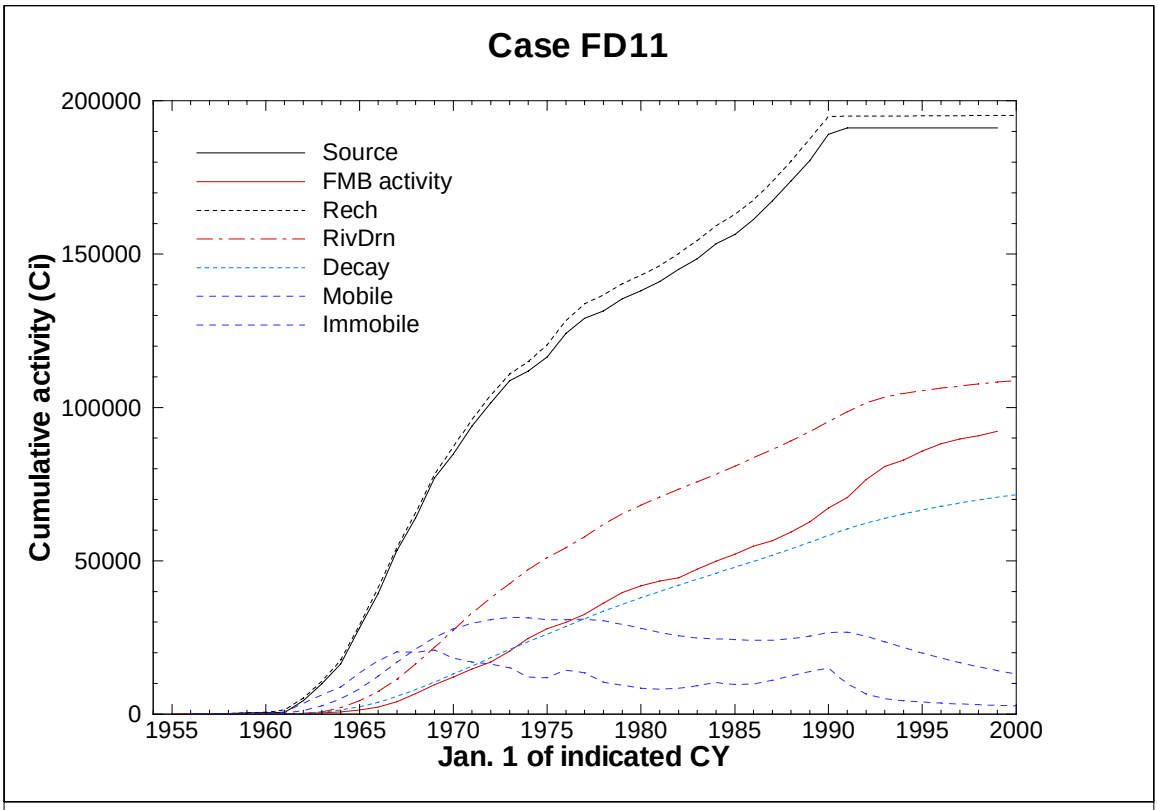

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

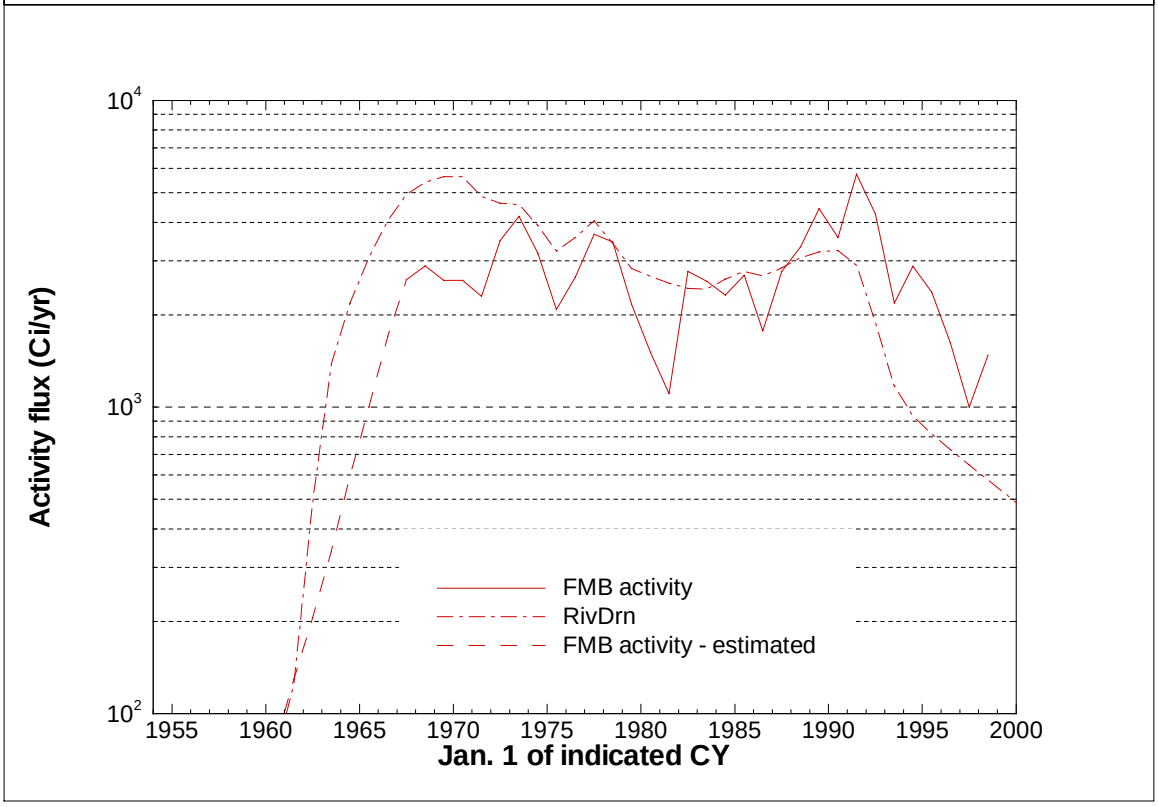

Case FD09
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

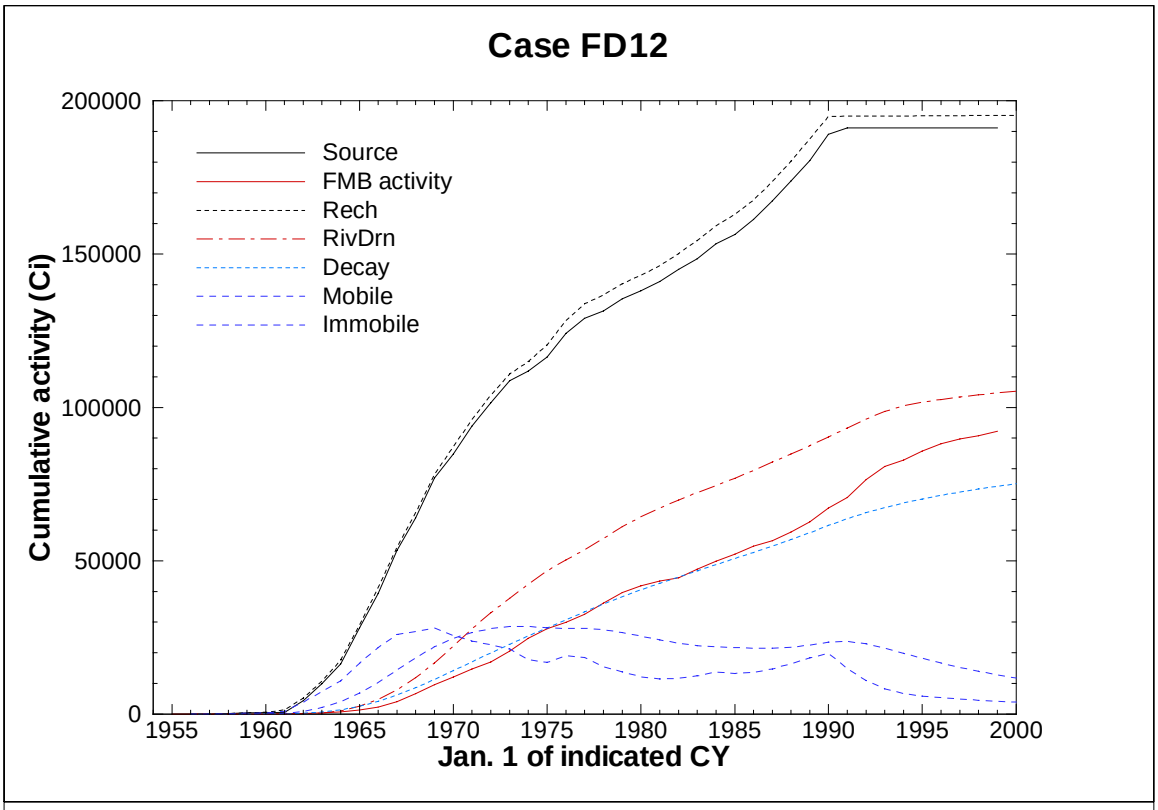

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

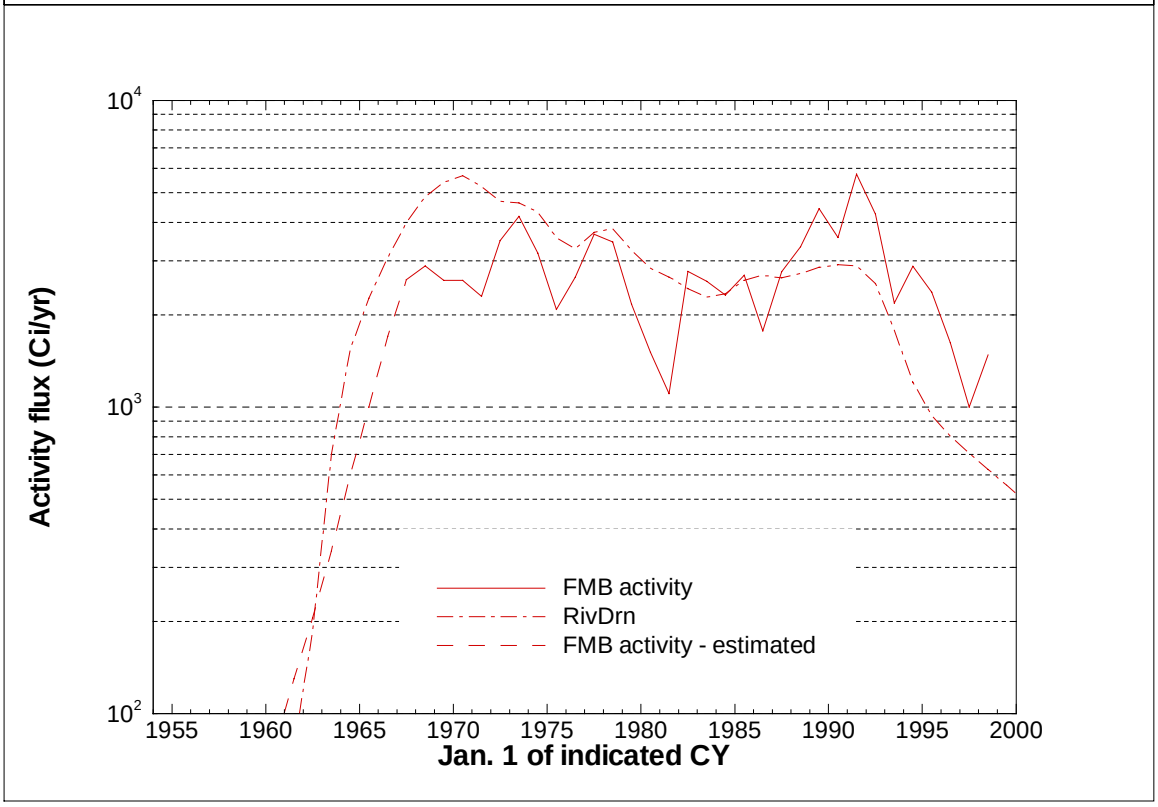

Case FD10
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

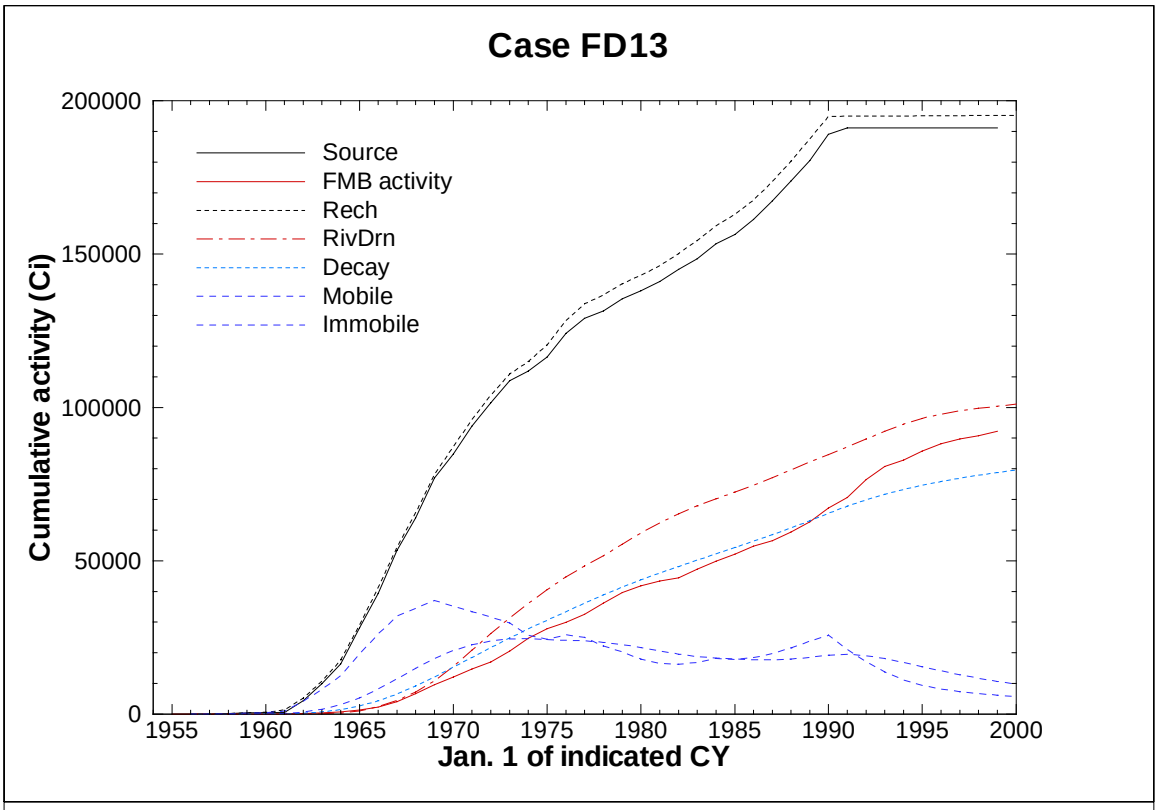

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

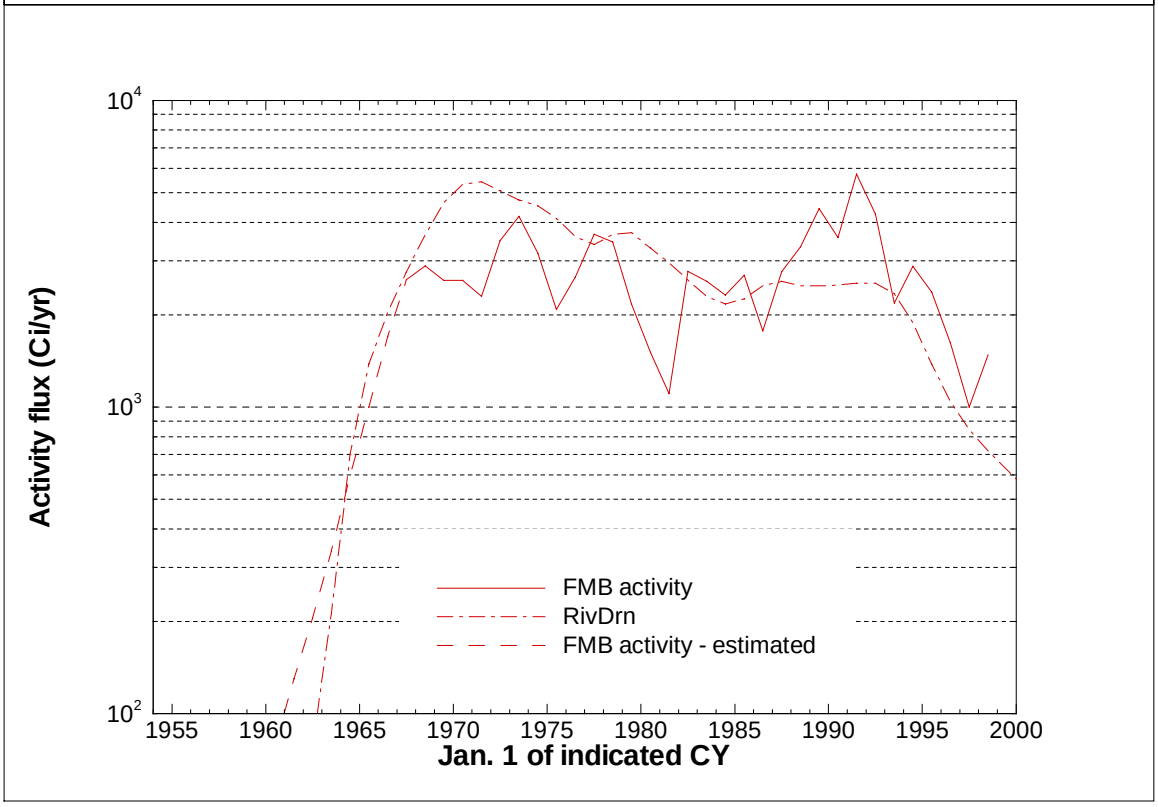

Case FD11
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

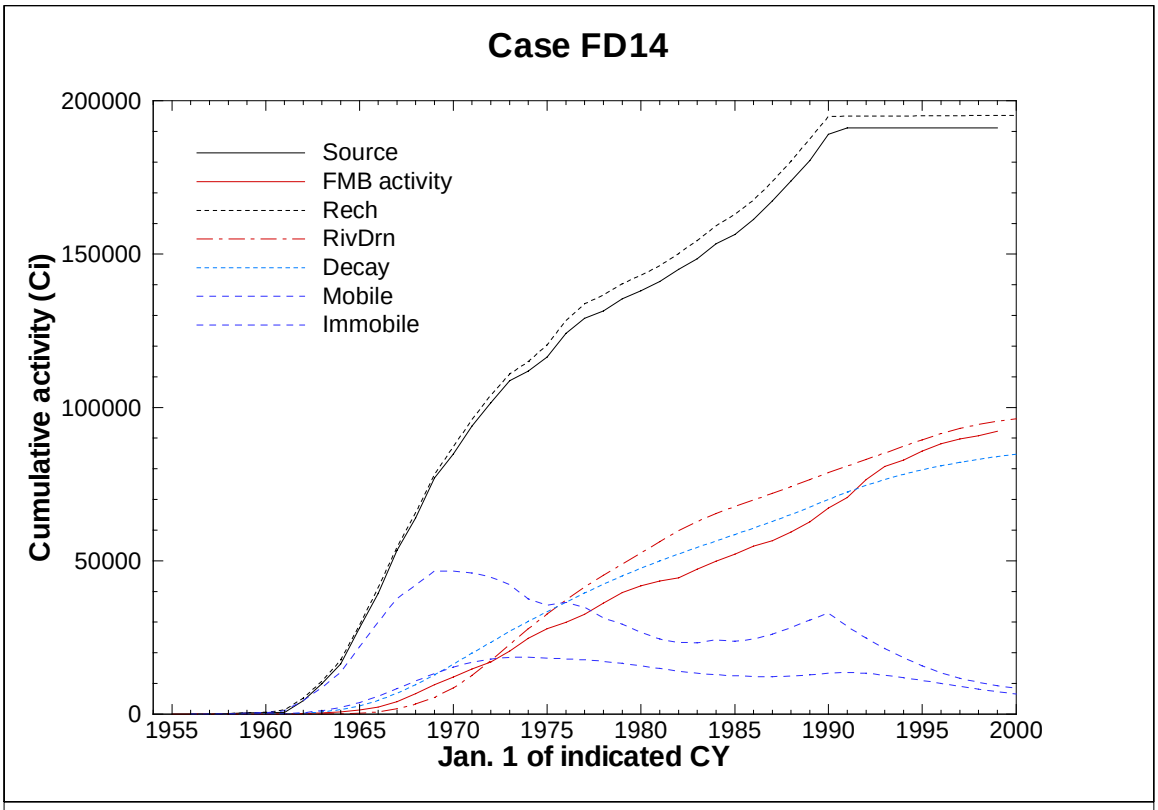

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

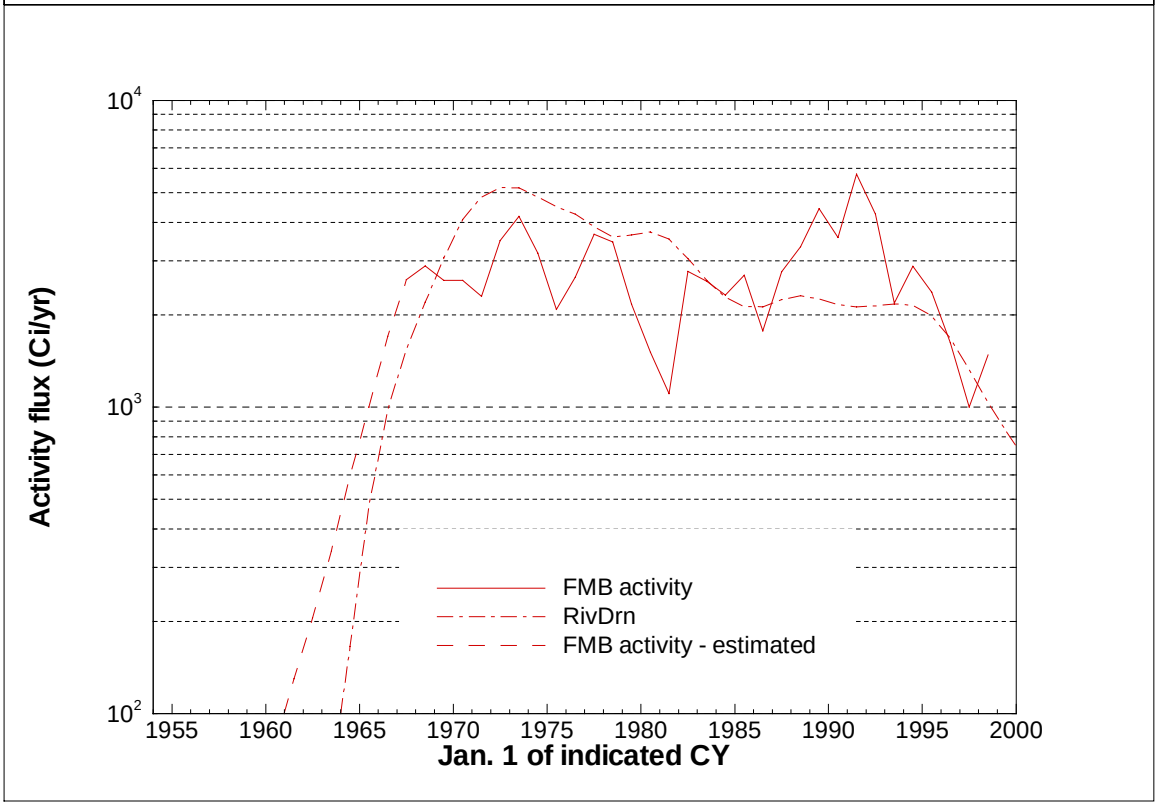

Case FD12
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

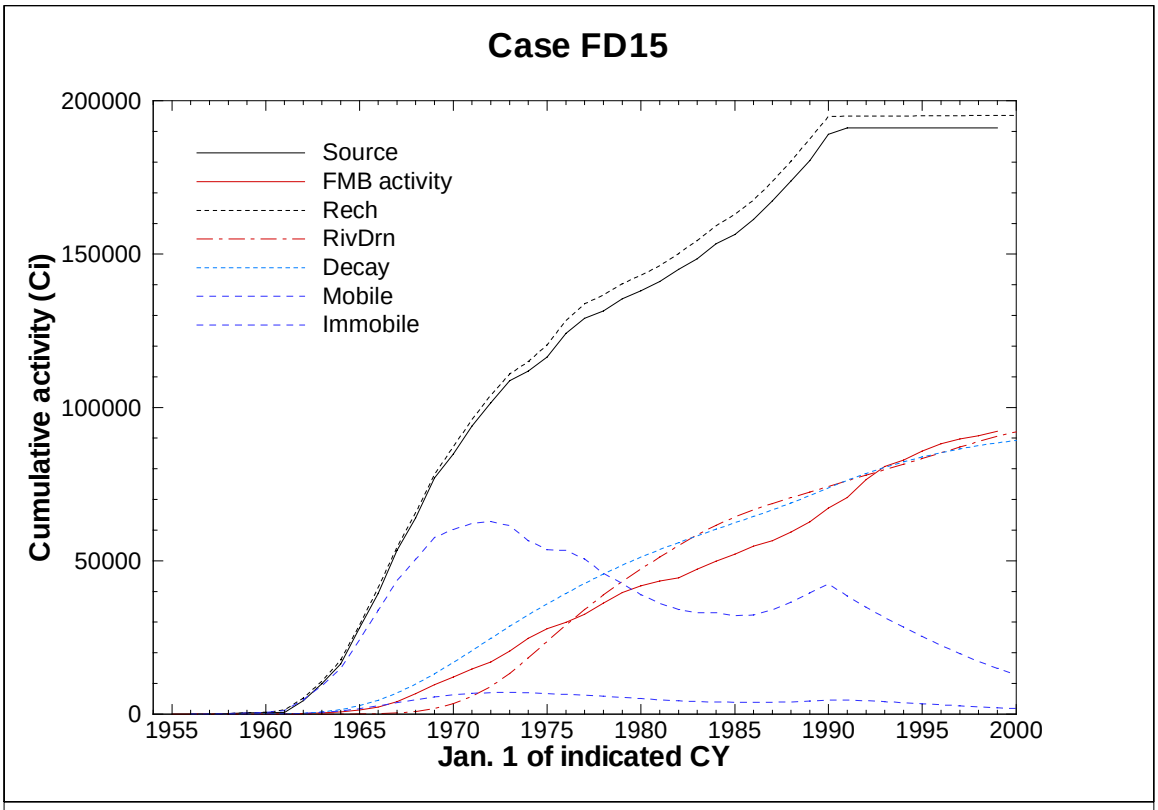

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

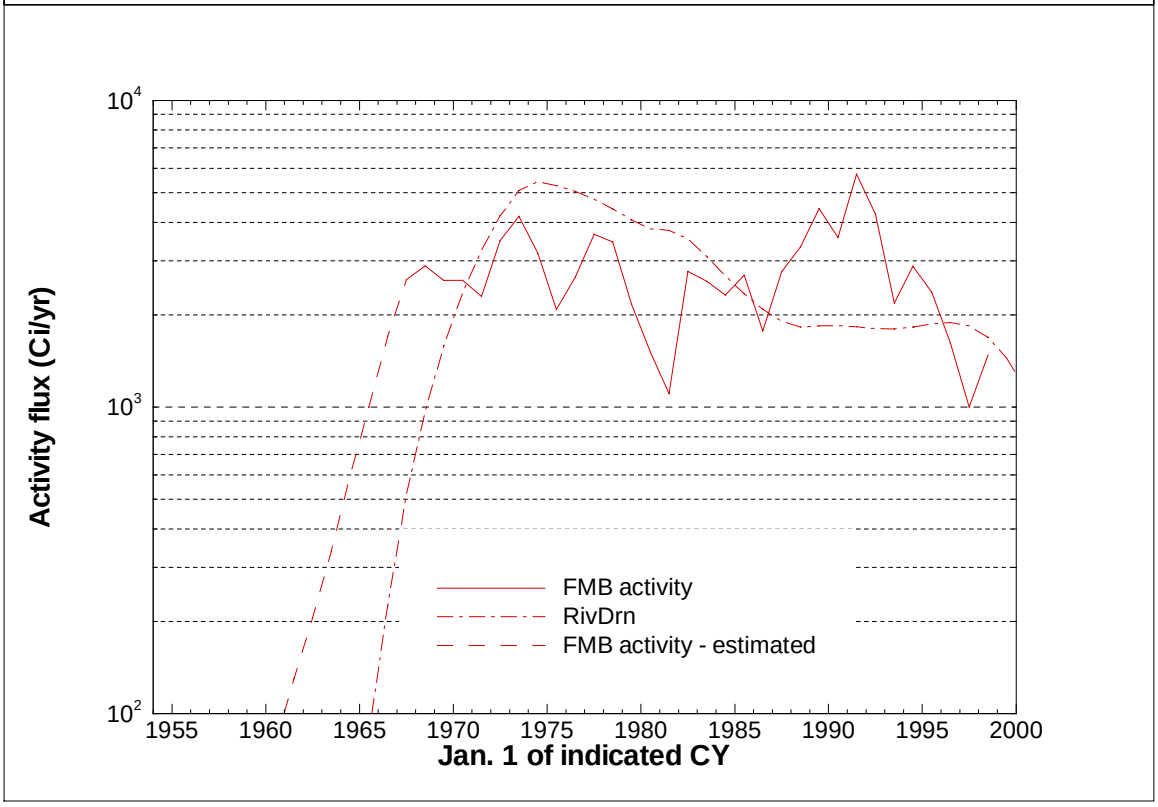

Case FD13
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

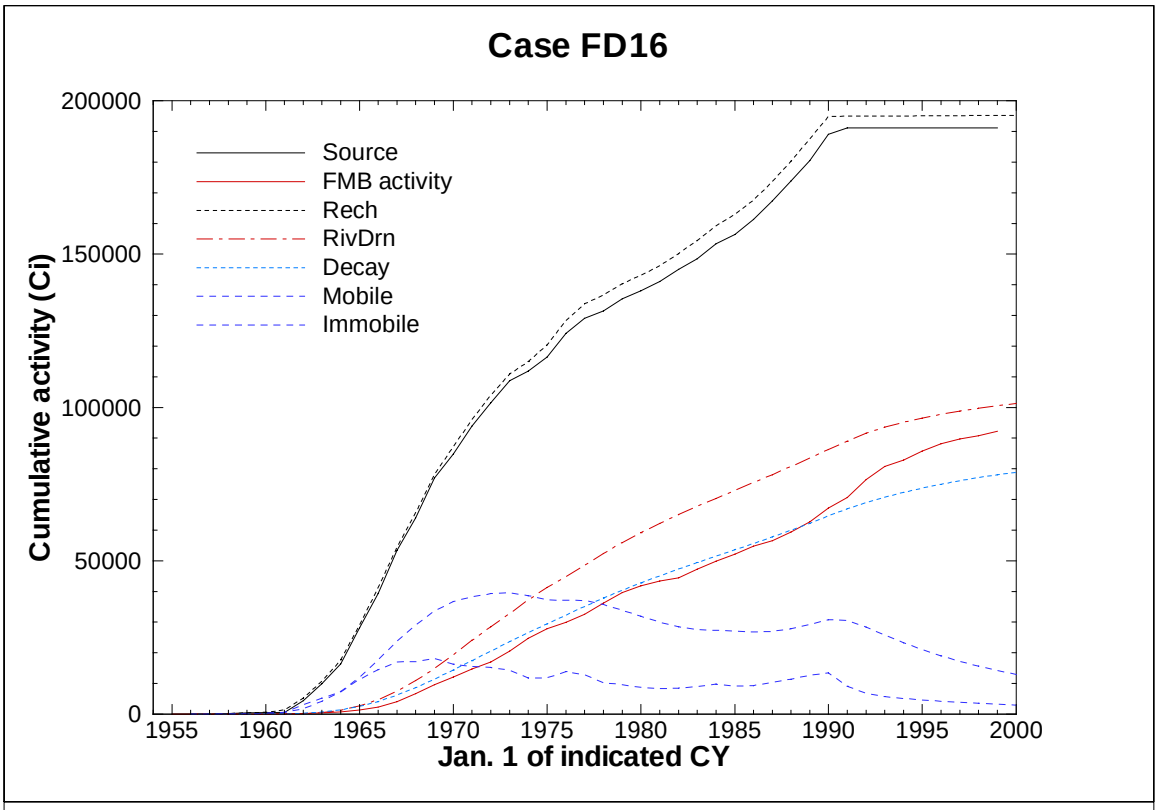

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

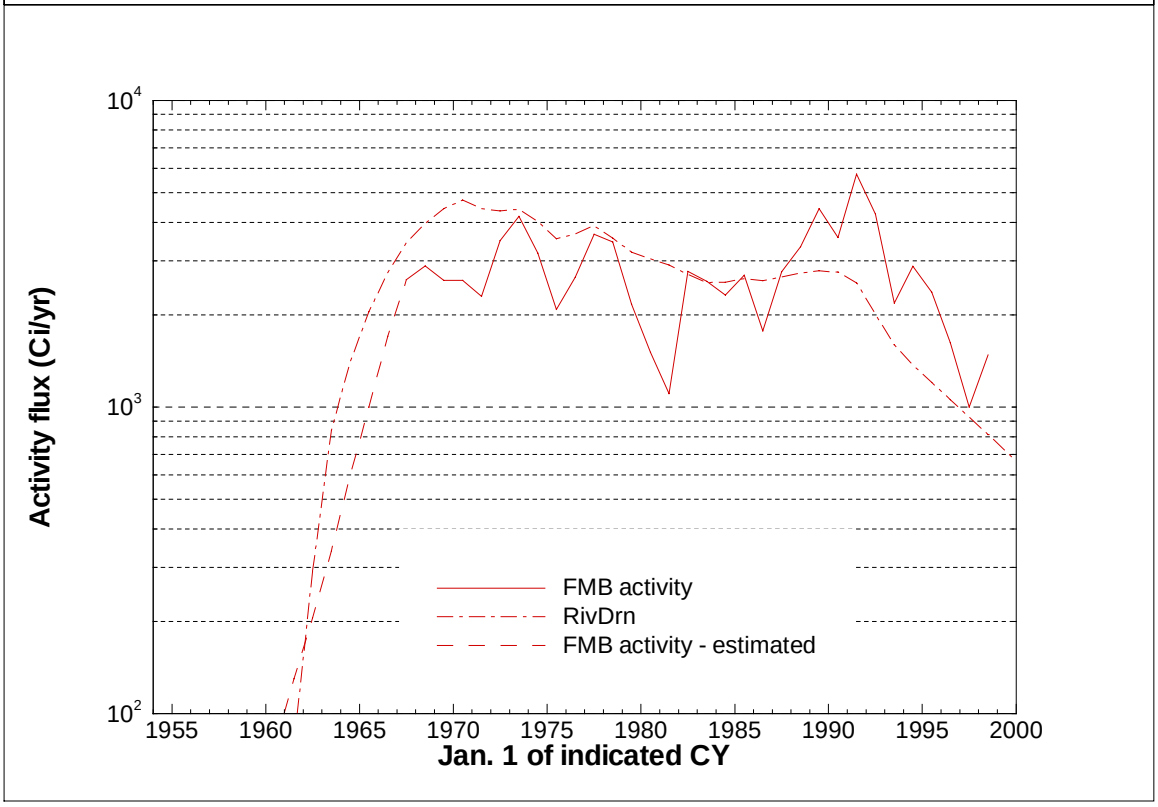

Case FD14
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

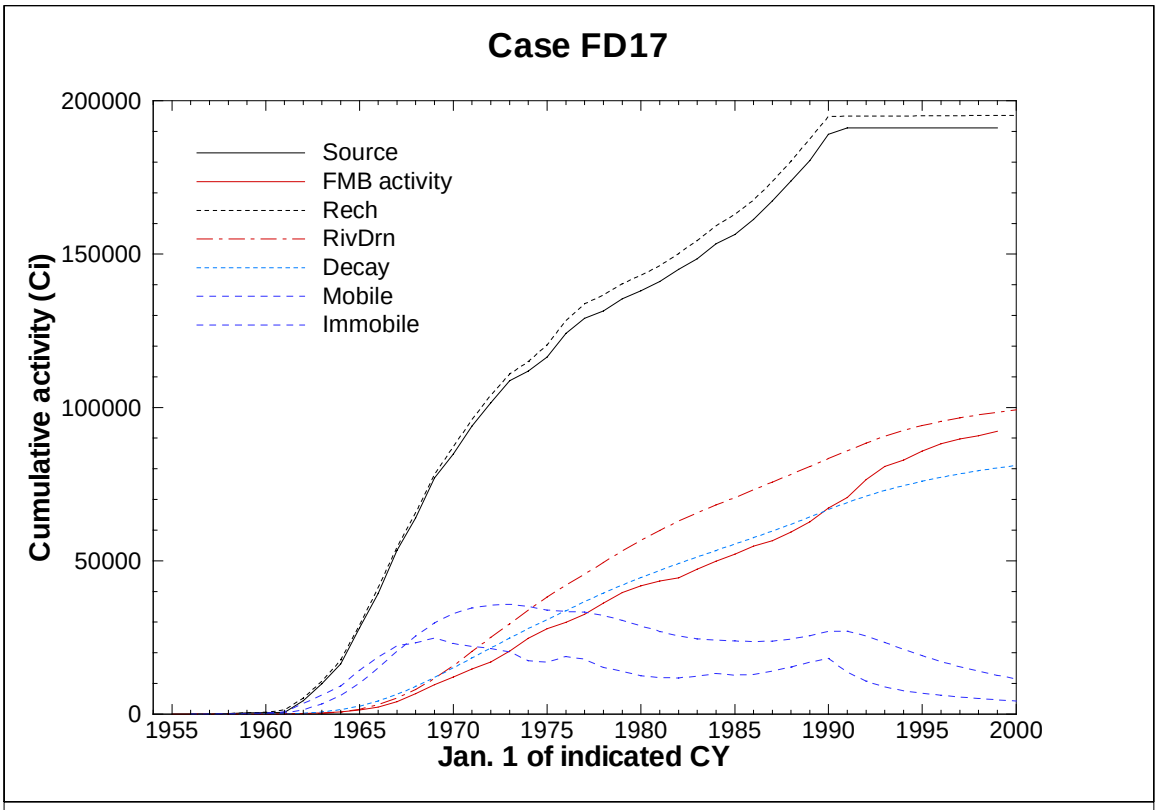

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

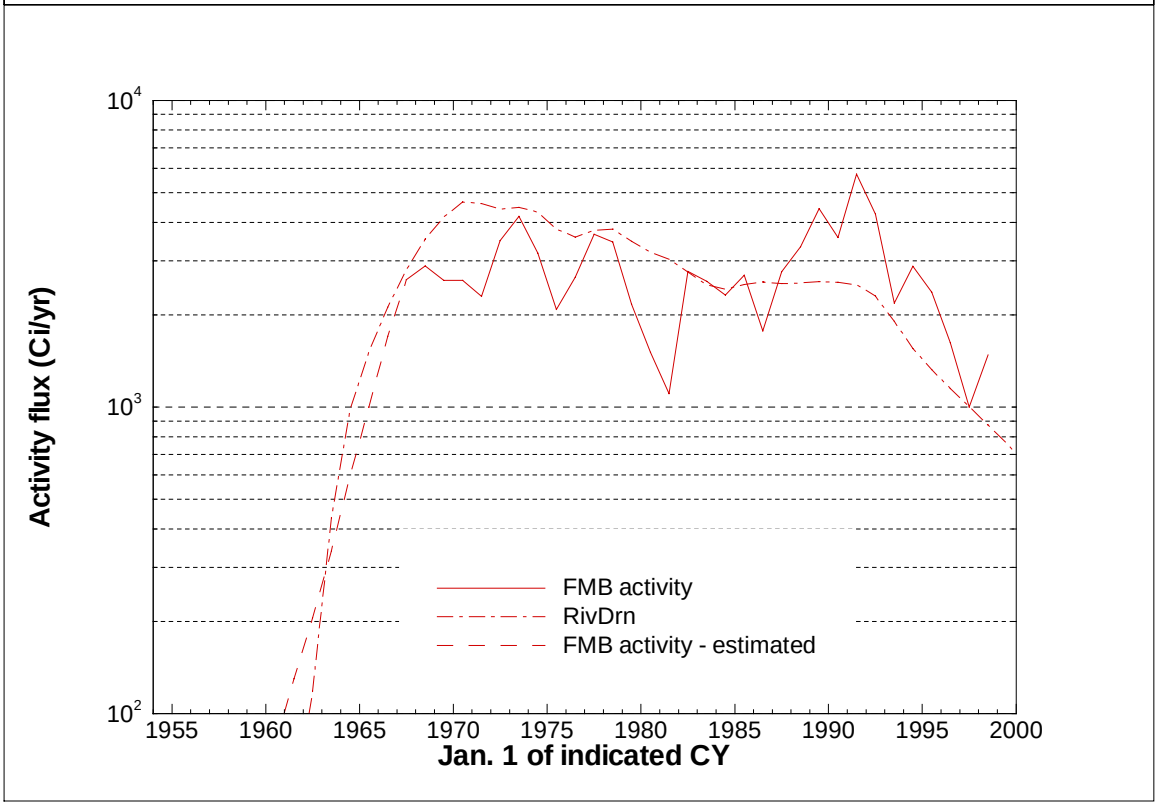

Case FD15
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

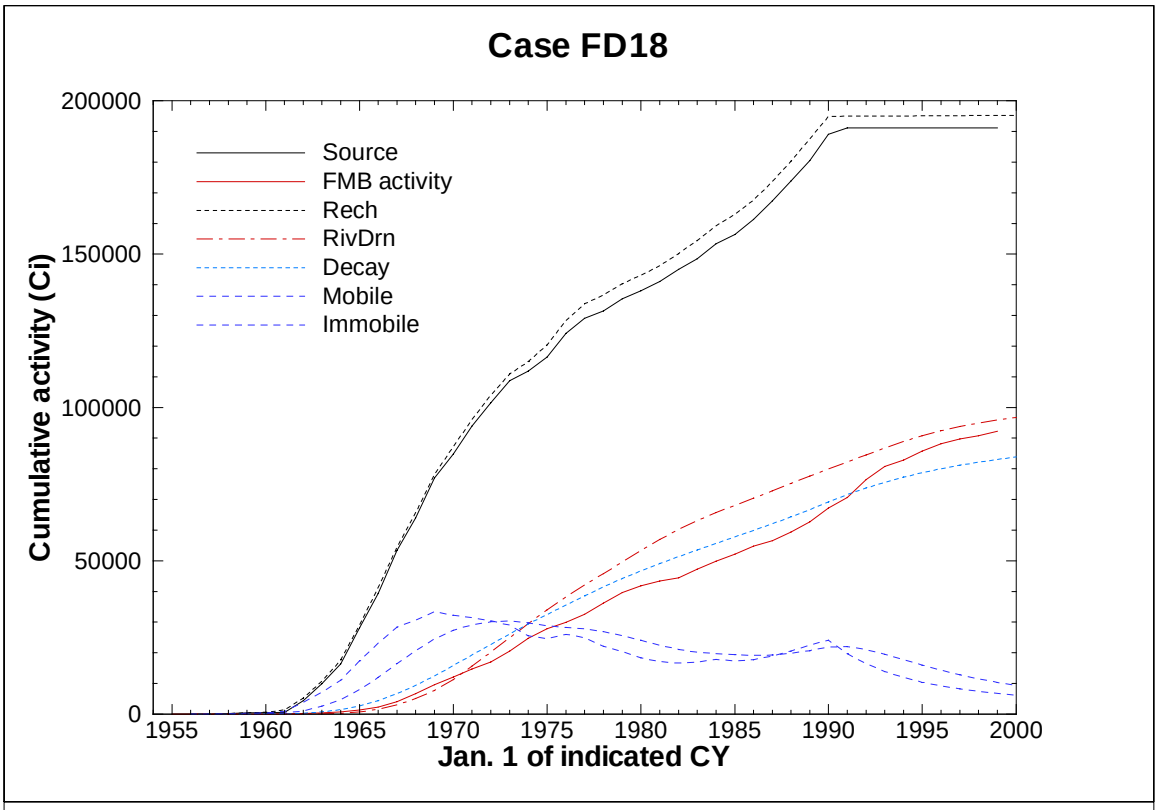

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

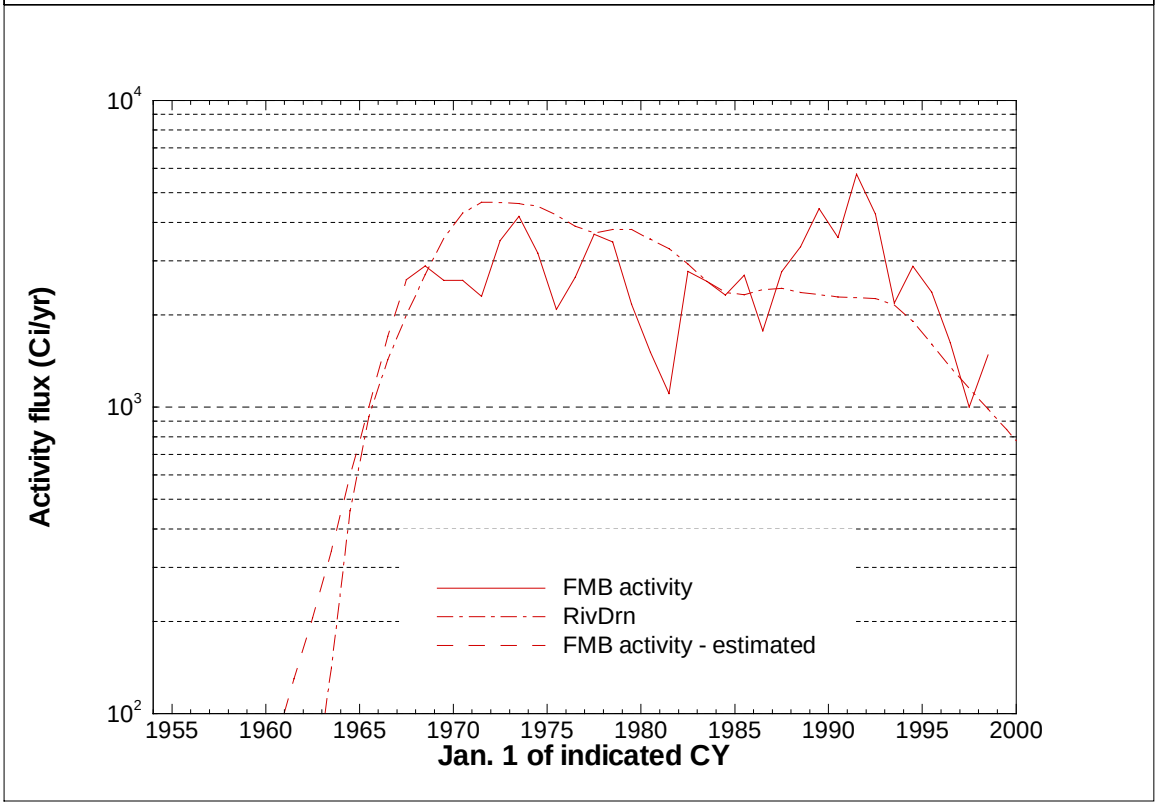

Case FD16
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

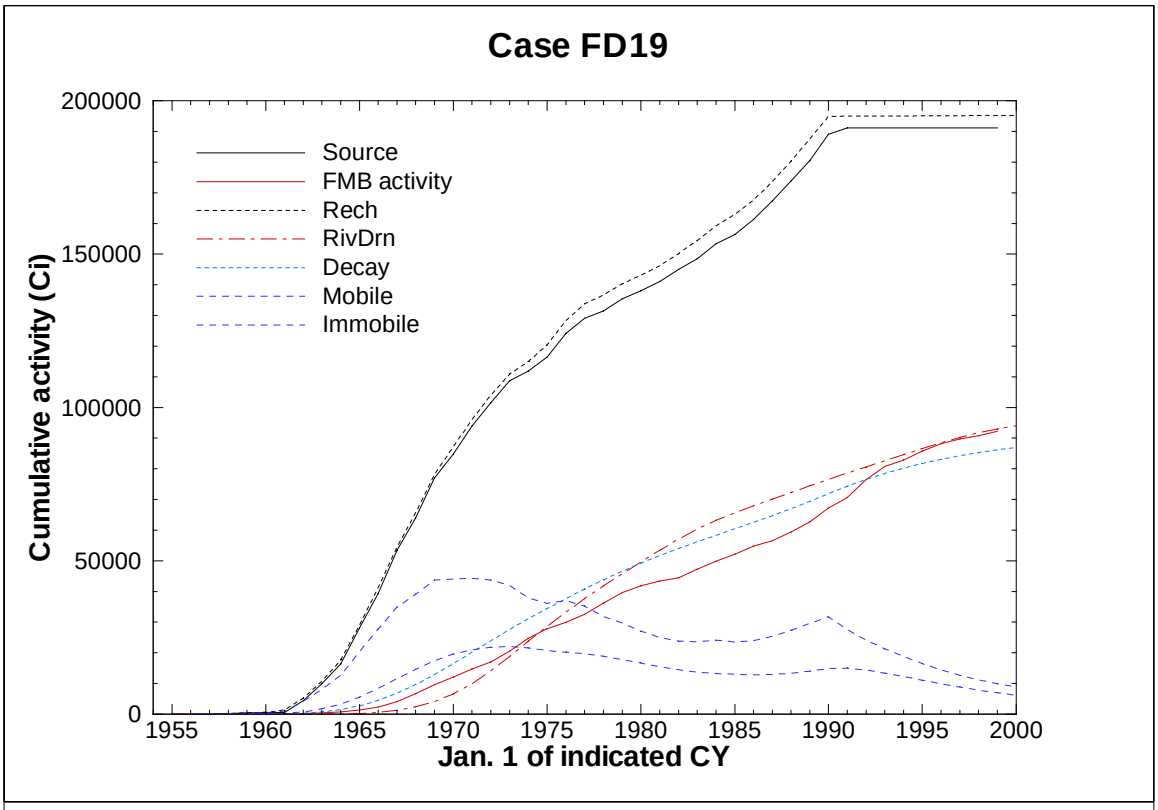

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

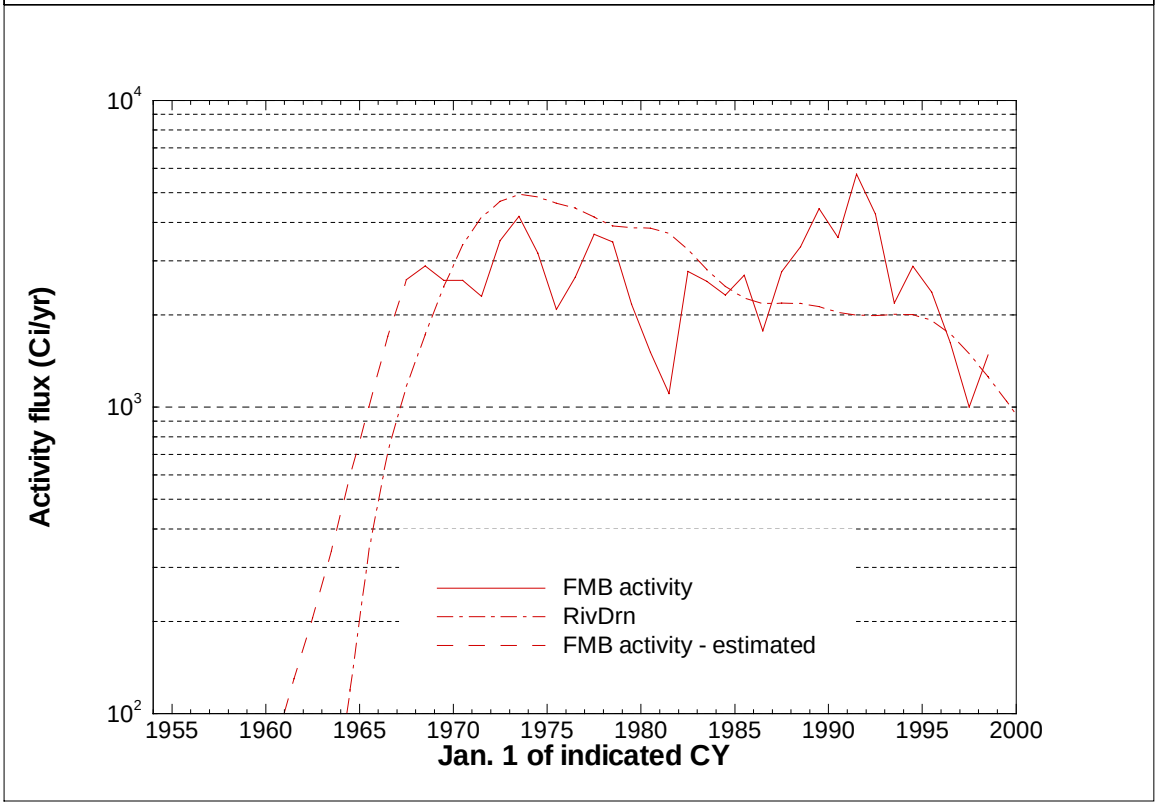

Case FD17
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

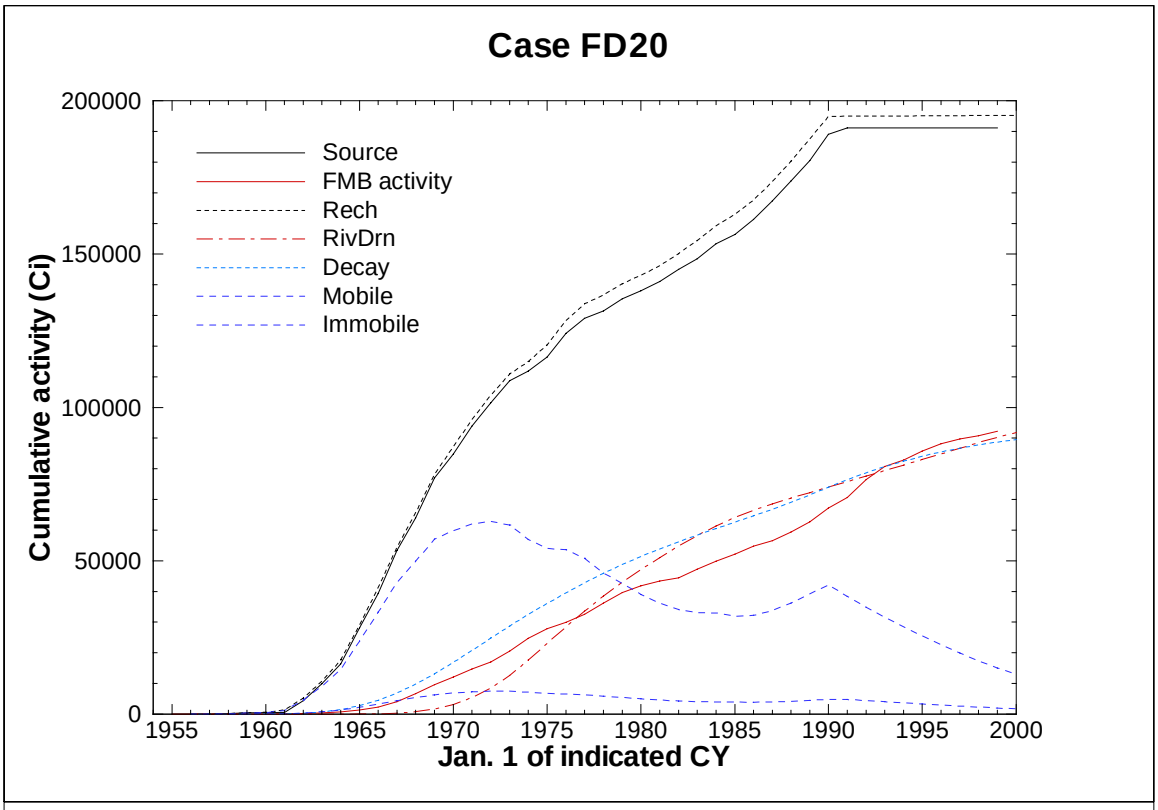

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

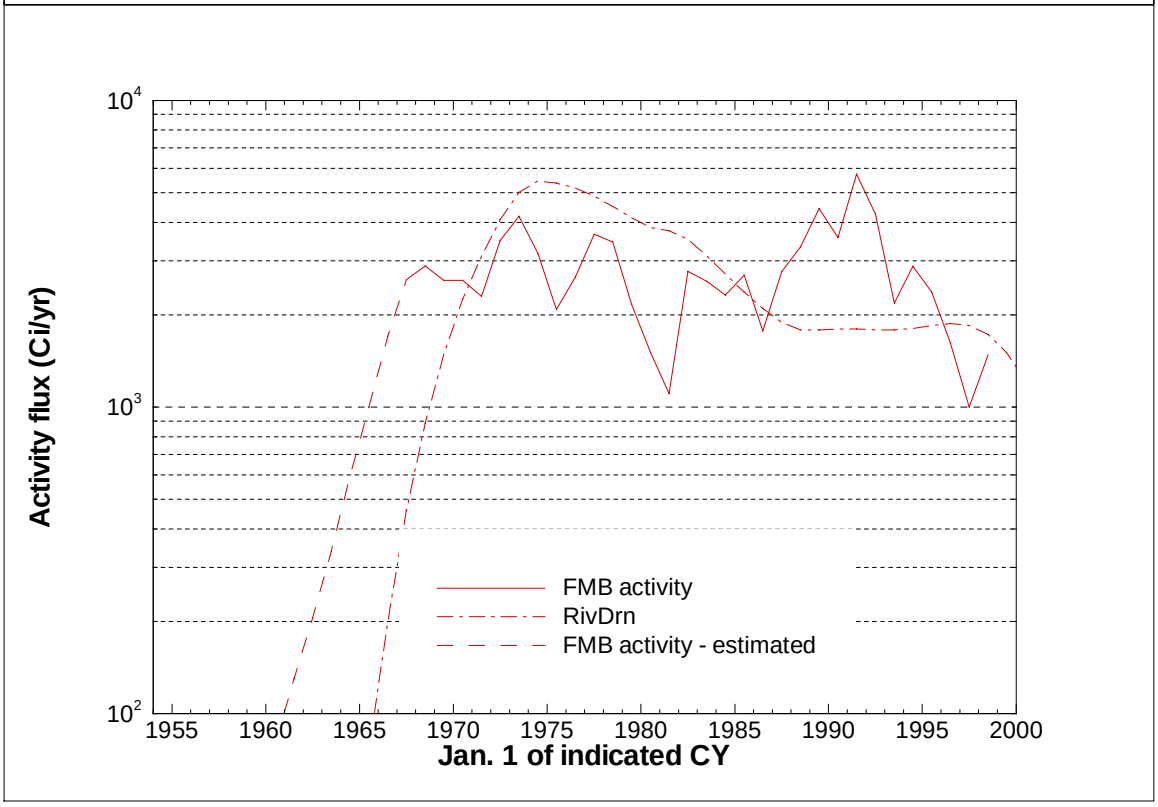

Case FD18
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

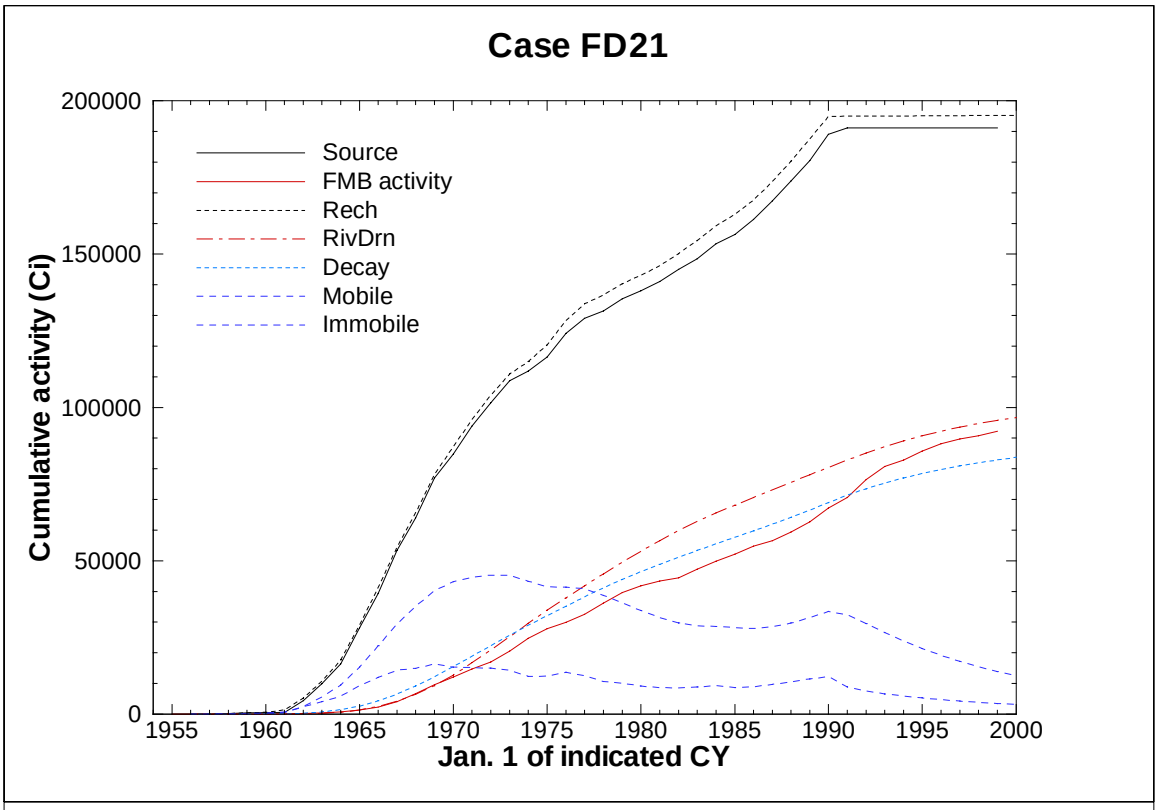

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

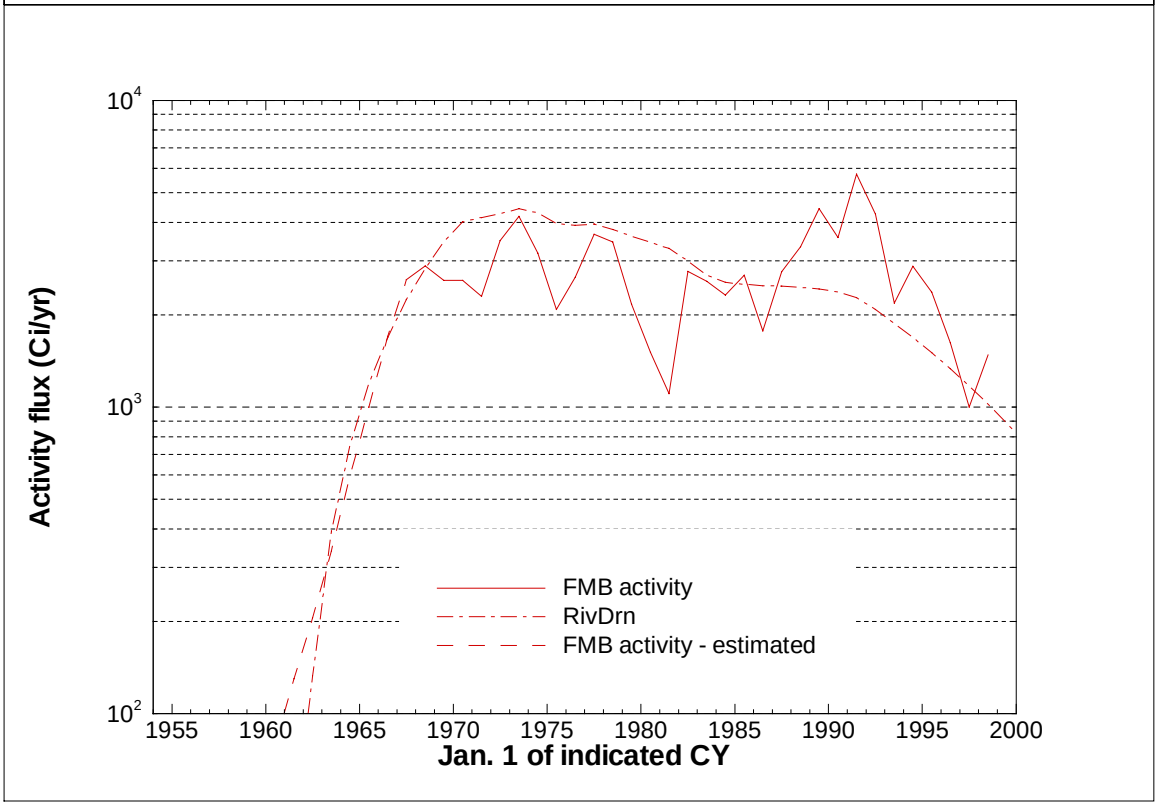

Case FD19
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

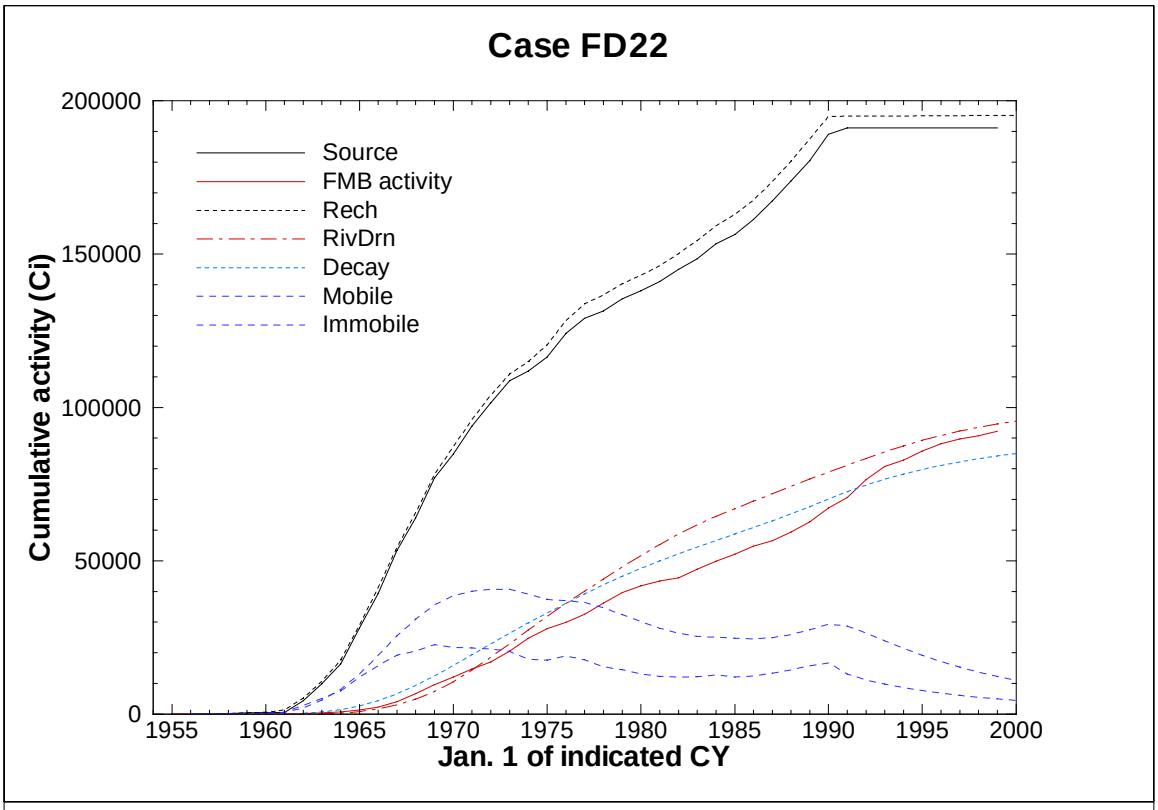

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

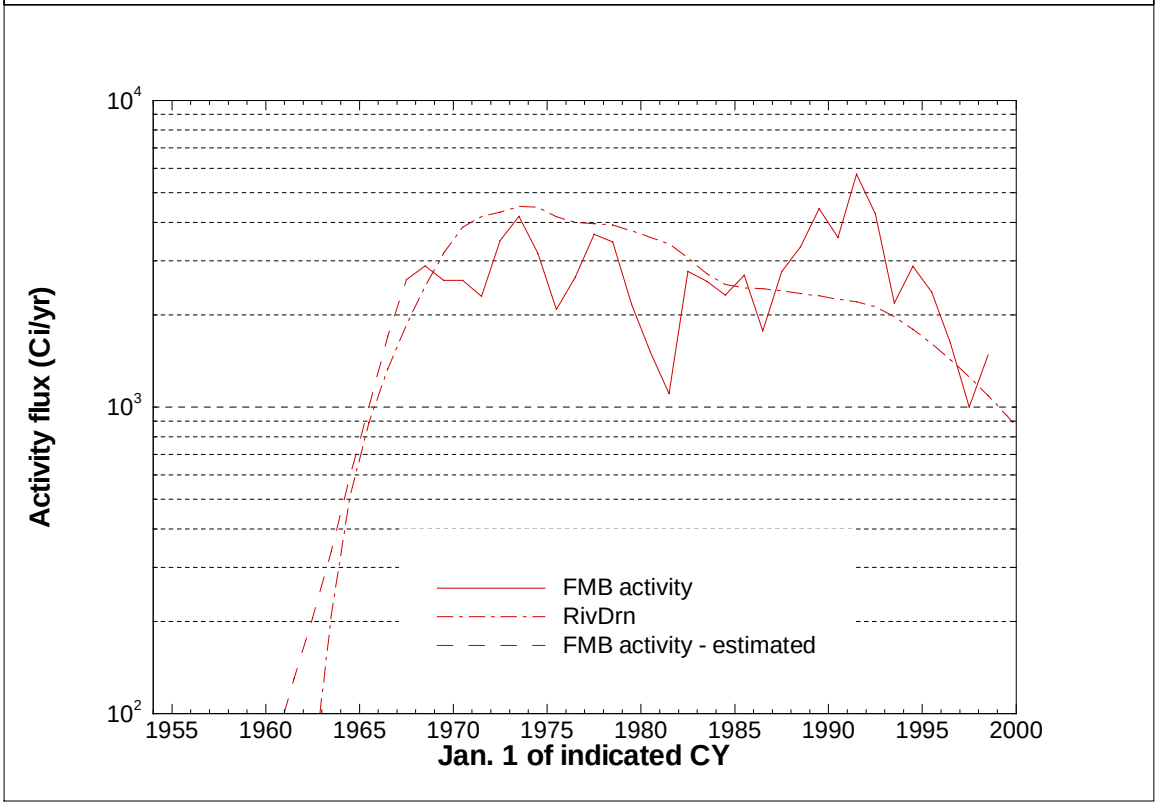

Case FD20
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

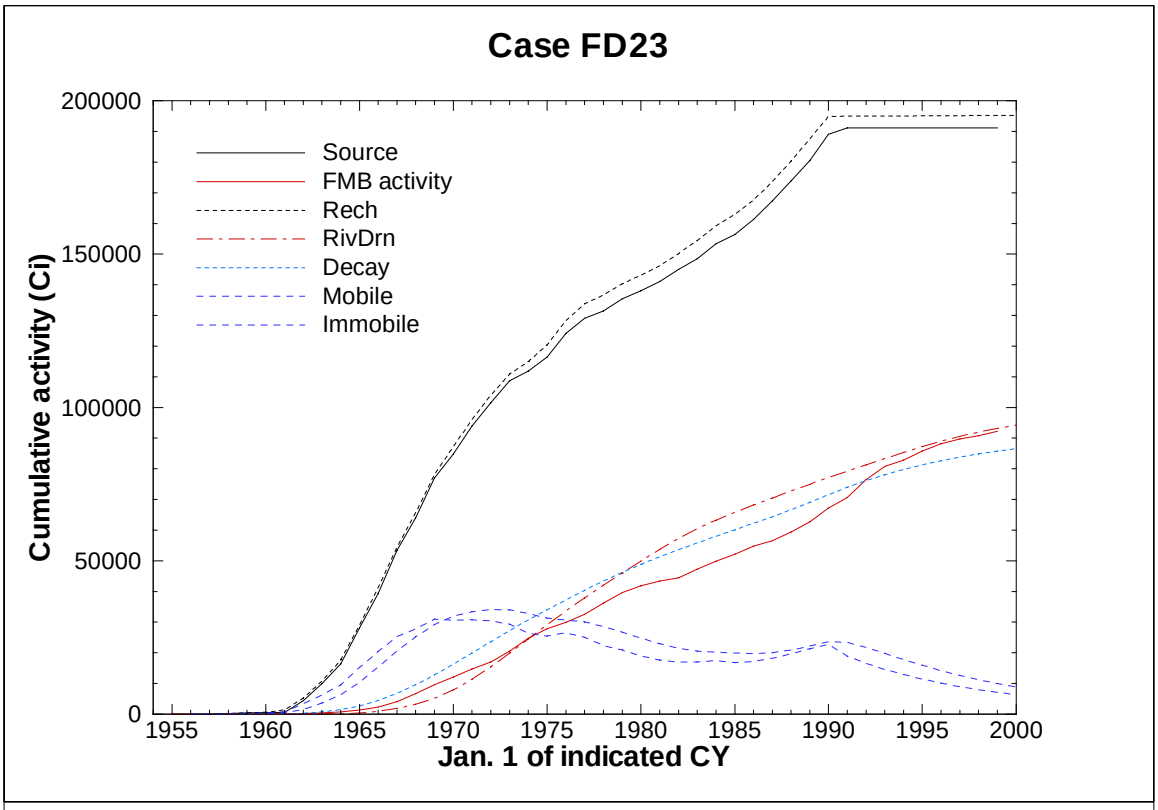

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

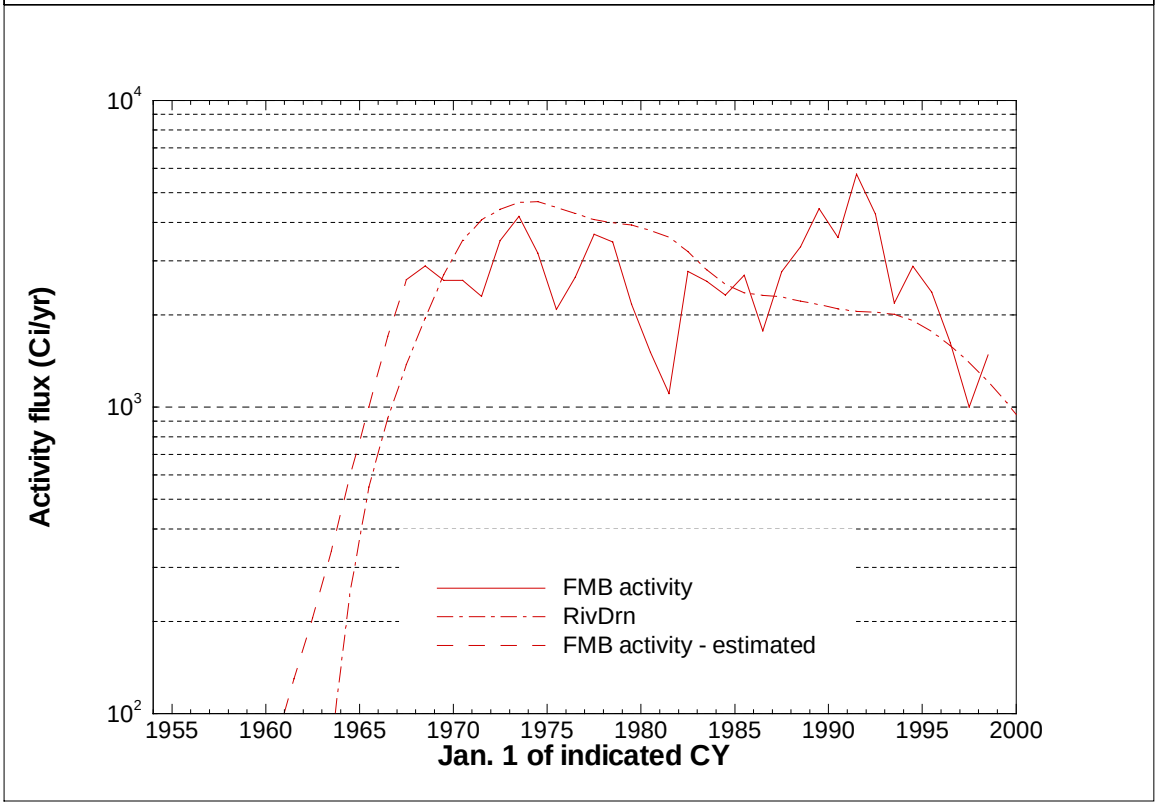

Case FD21
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

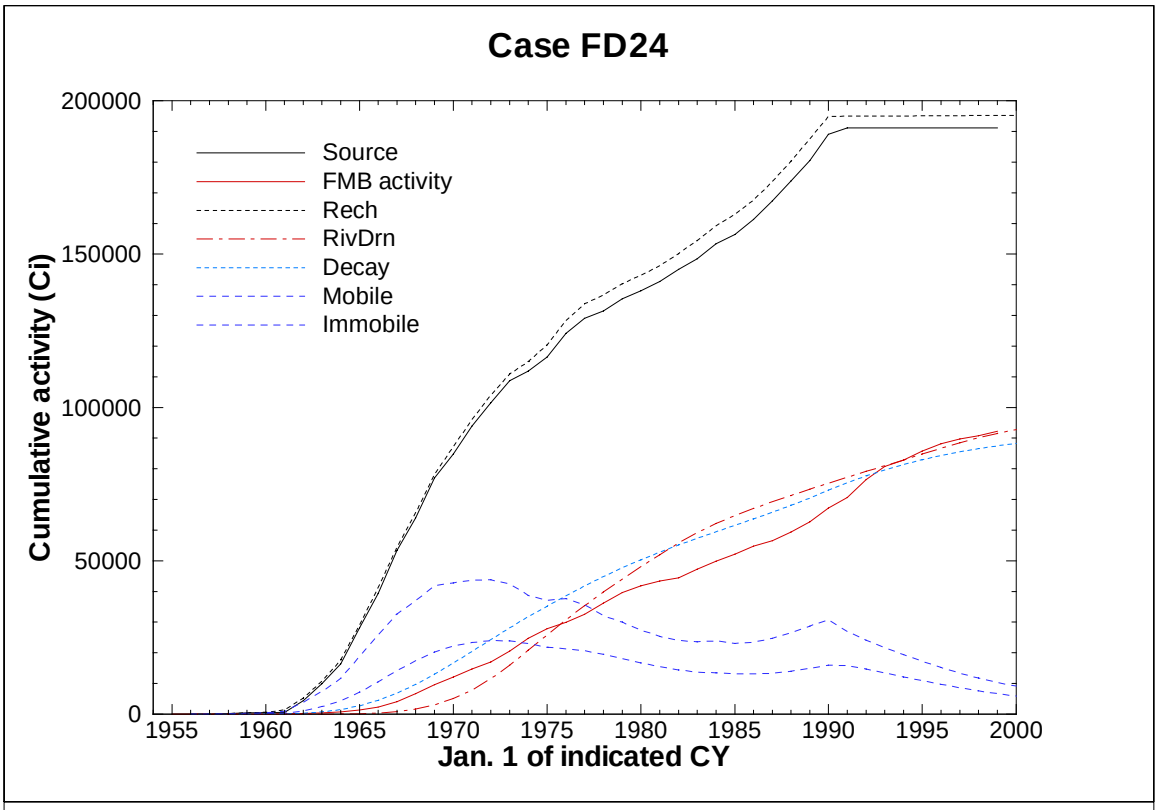

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

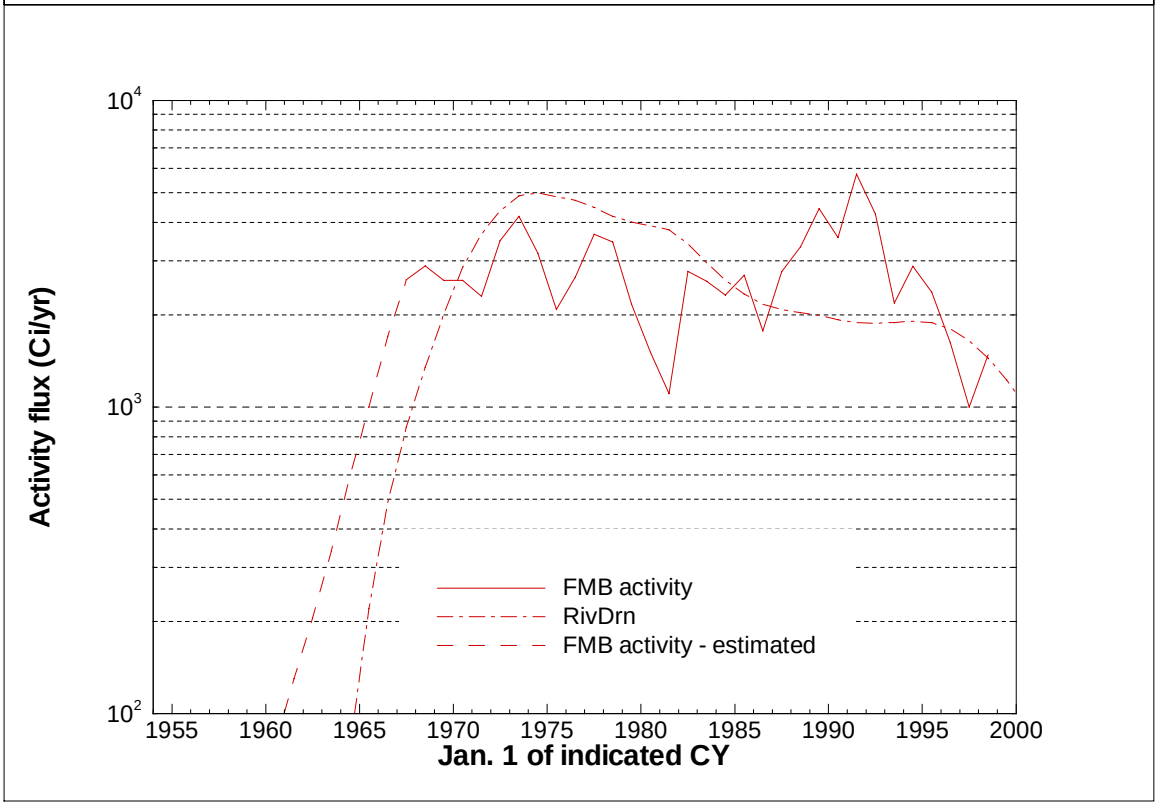

Case FD22
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

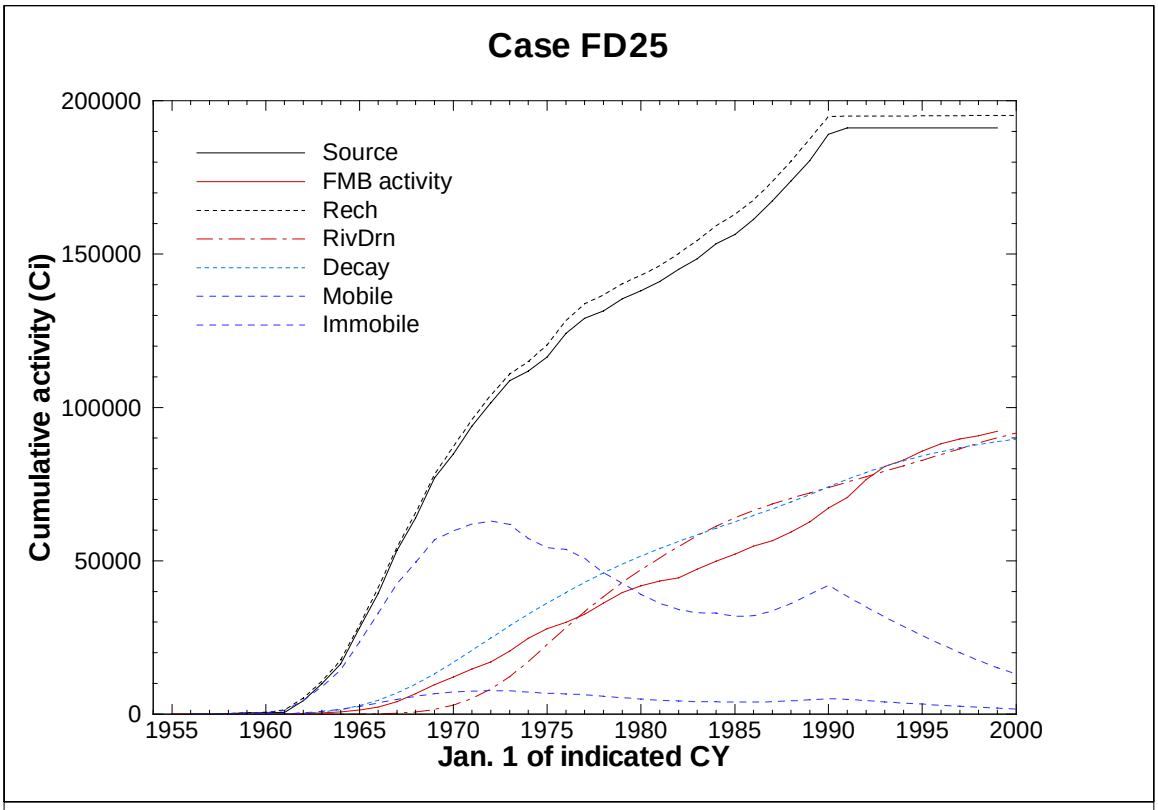

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

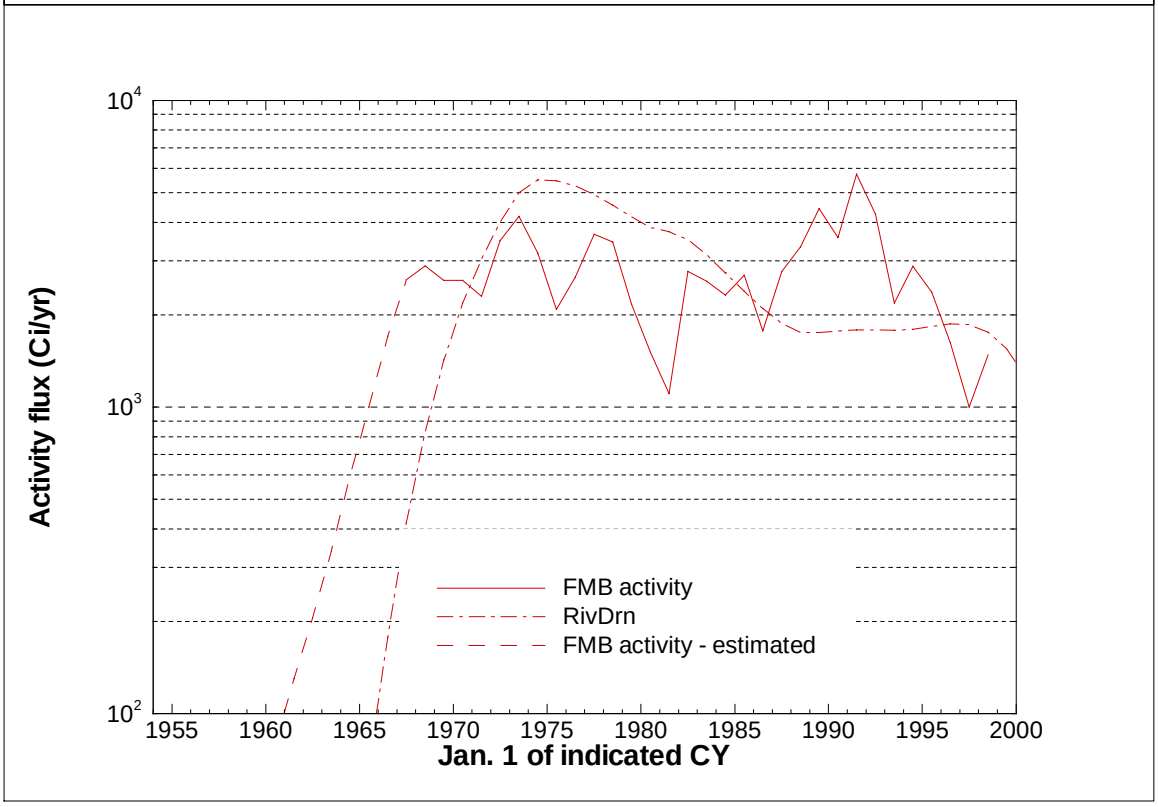

Case FD23
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

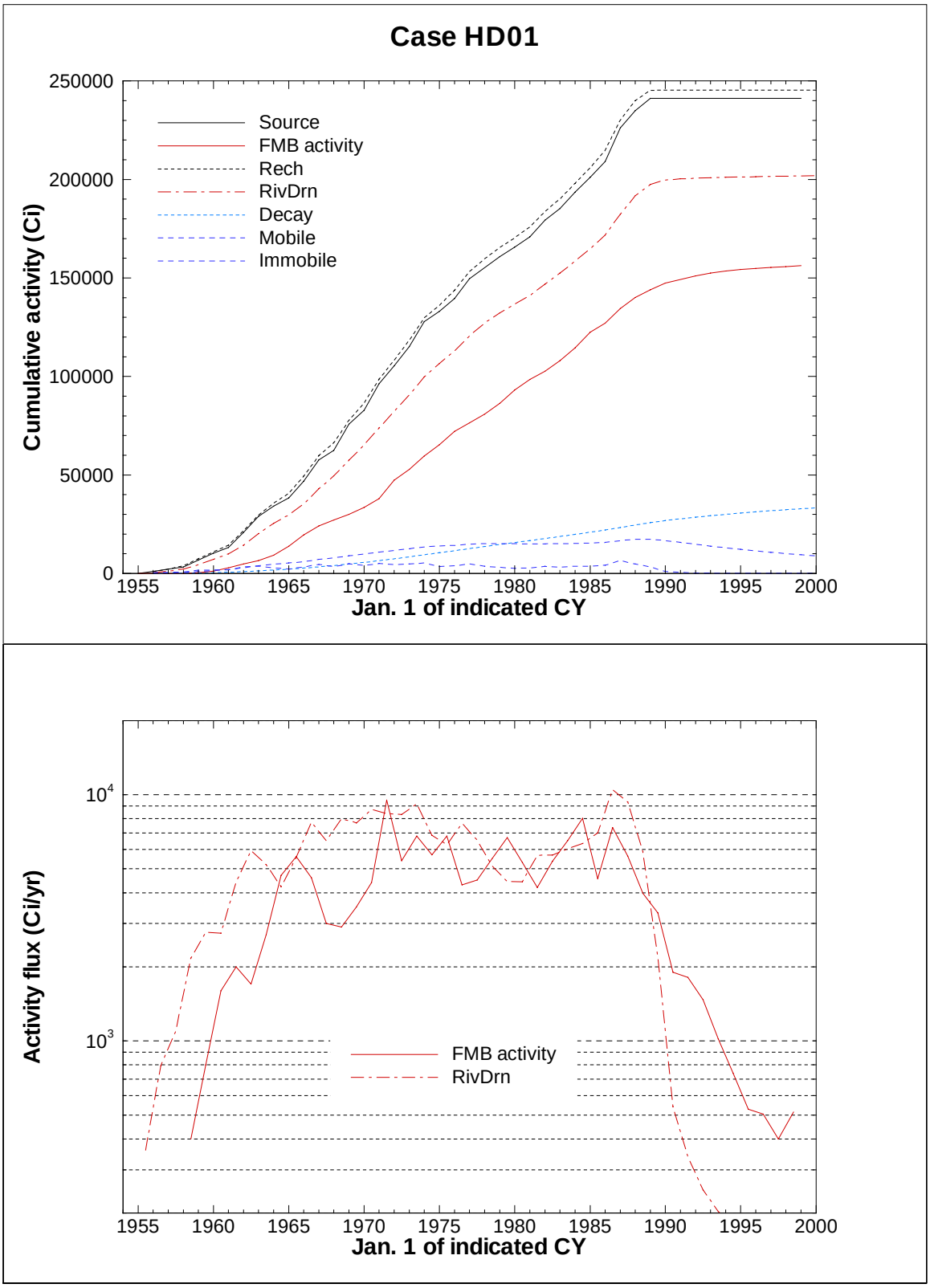

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

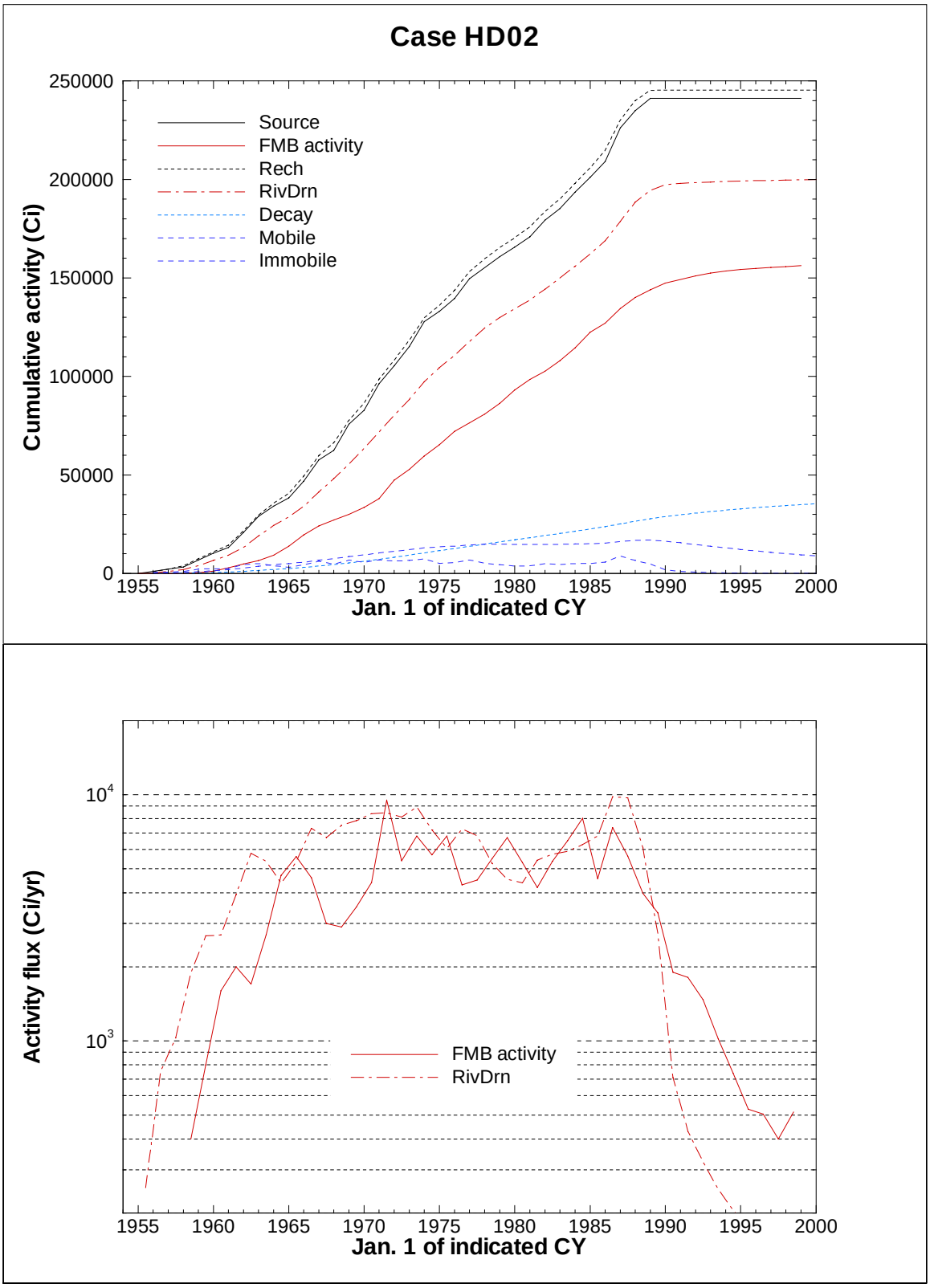

Case FD24
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

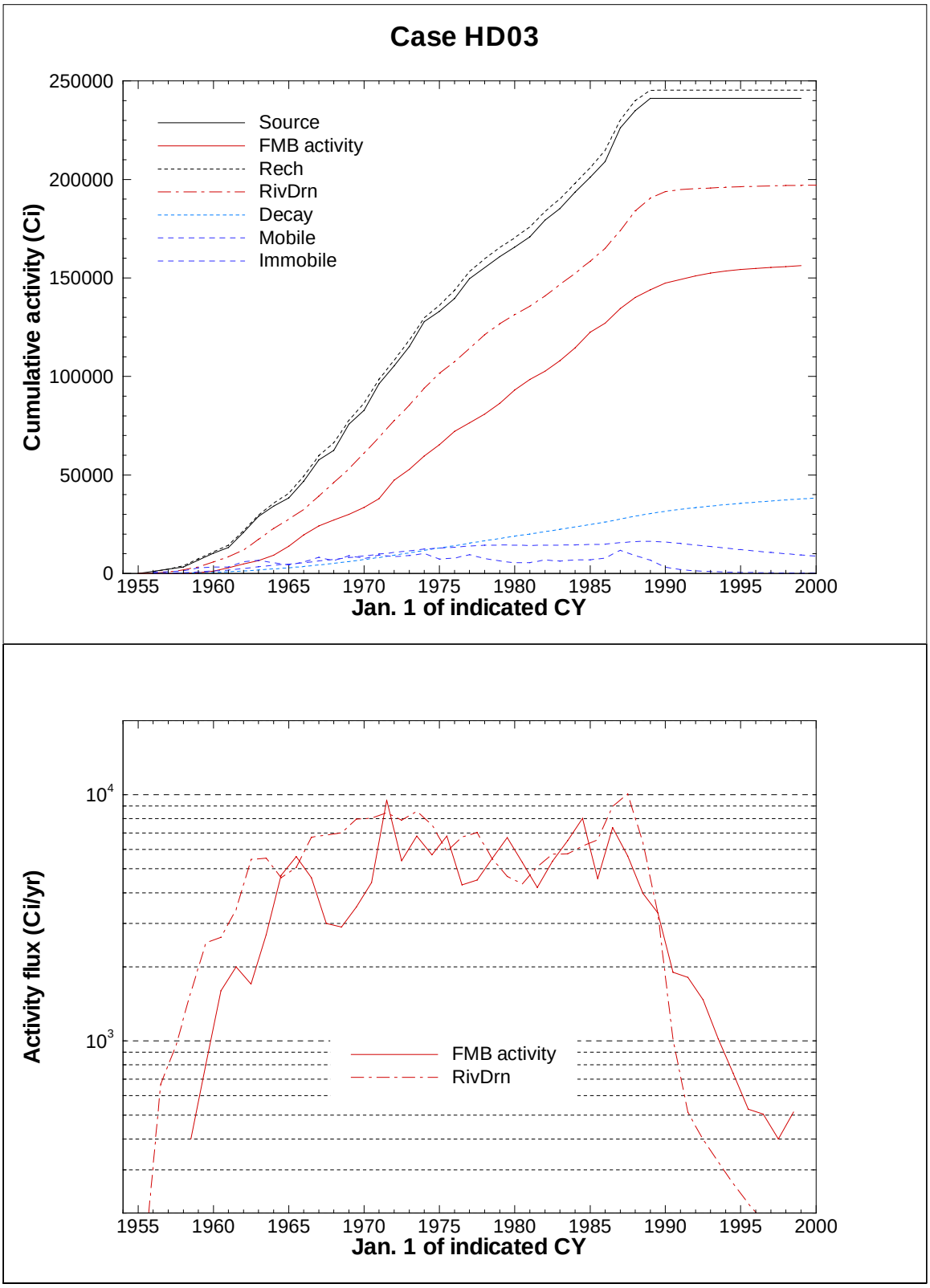

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

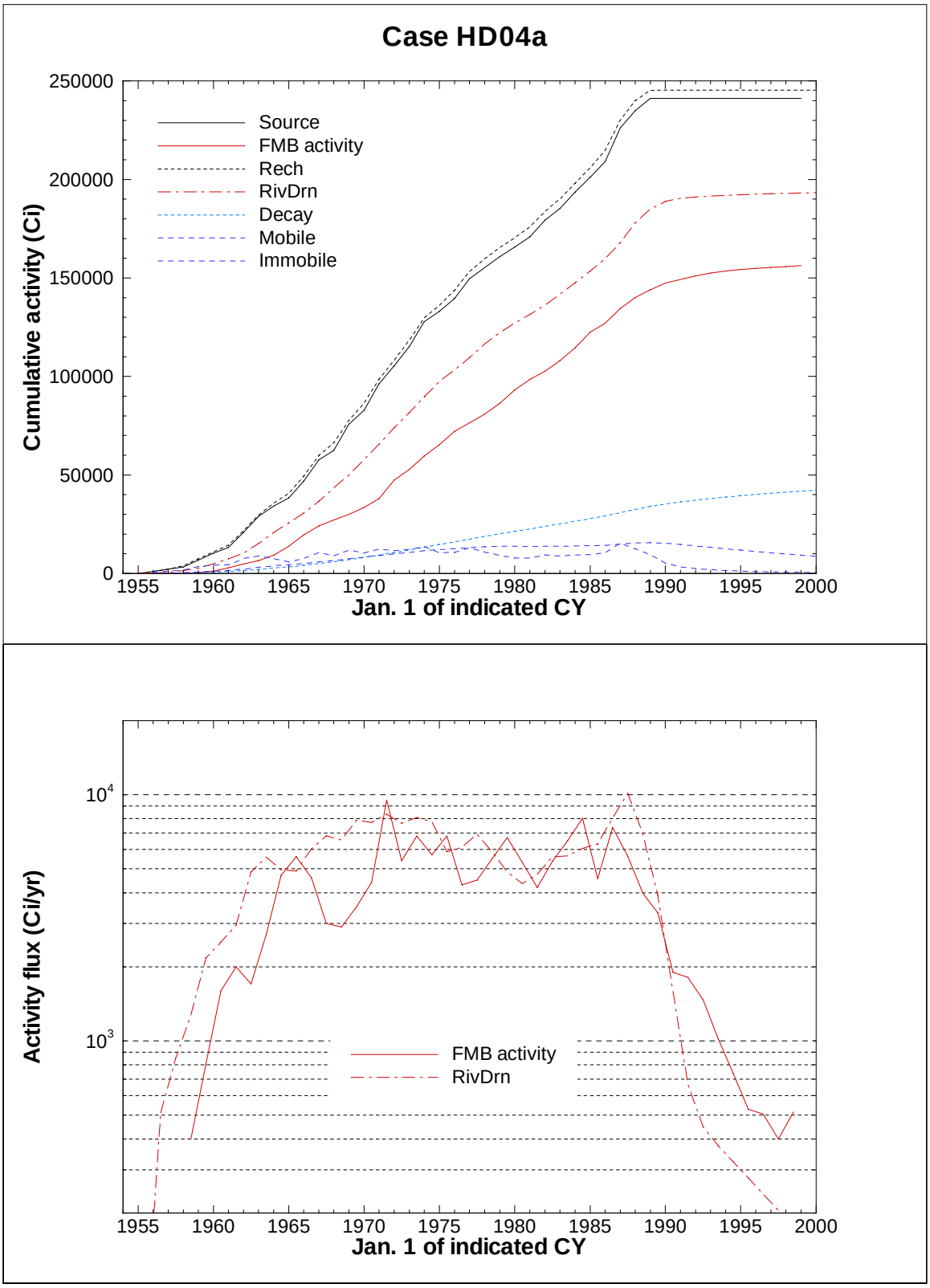

Case FD25
Cumulative activity (Ci)
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

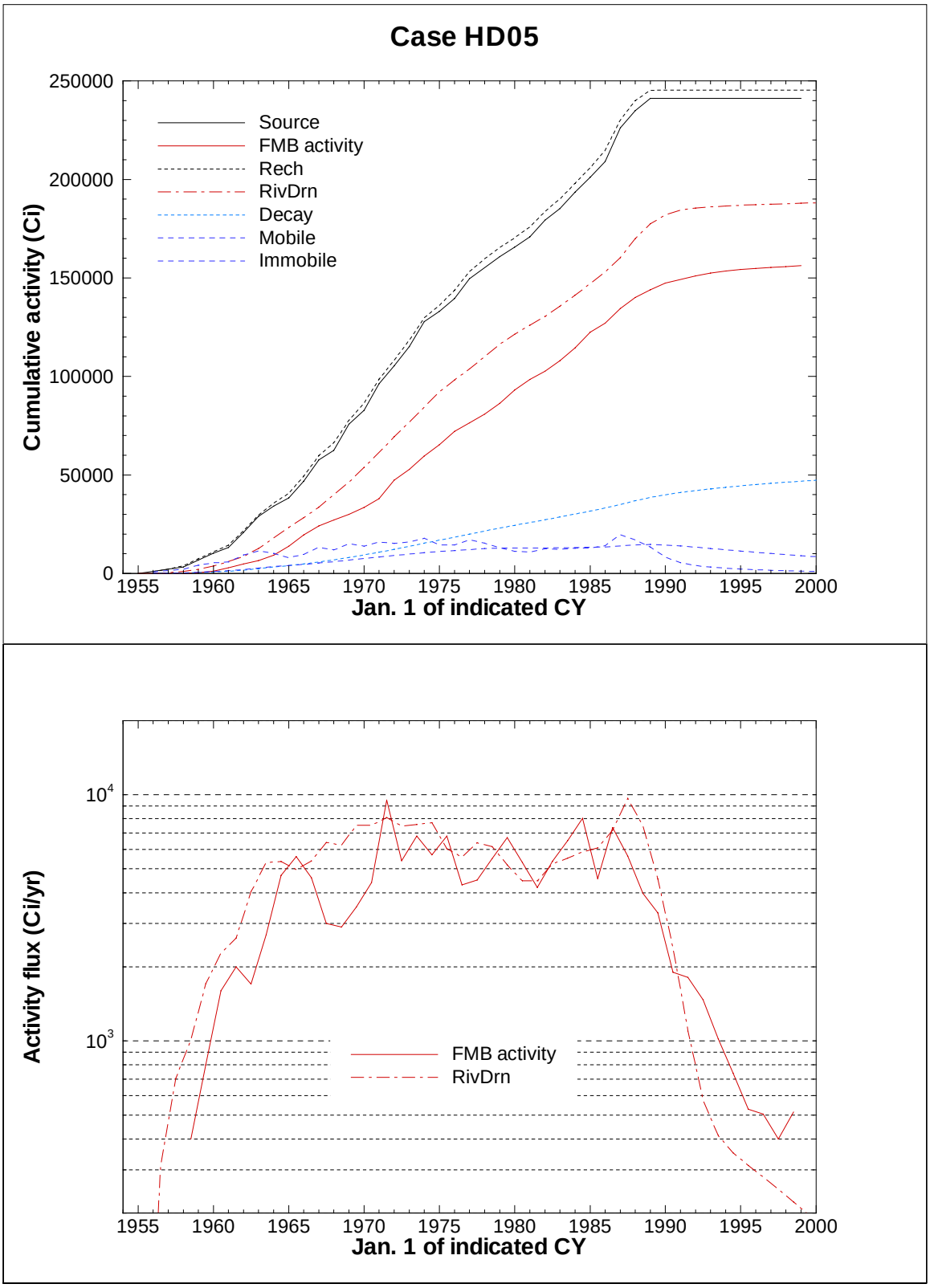

Activity flux (Ci/yr)
10^4
10^3
10^2
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn
FMB activity - estimated

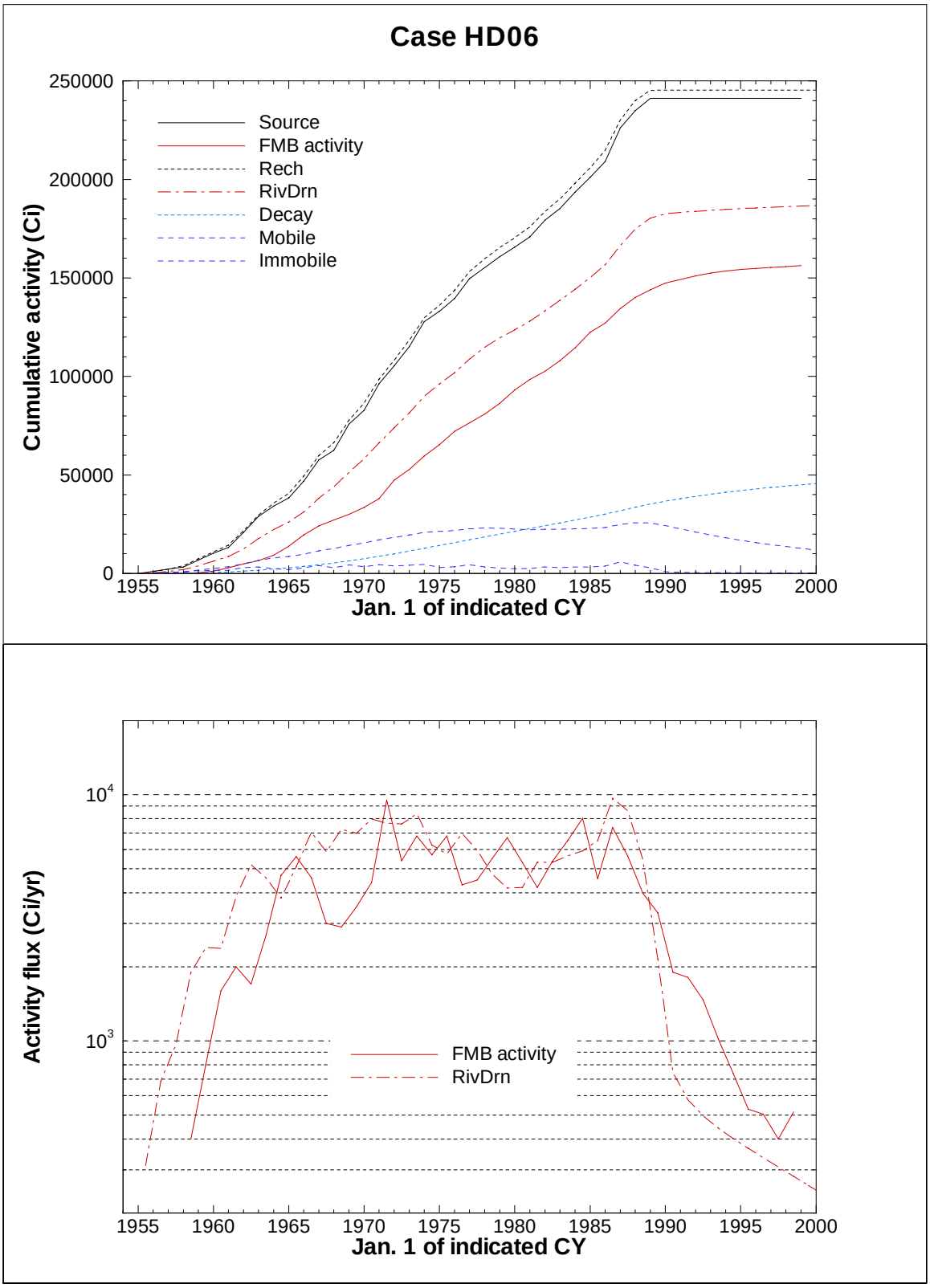

Case HD01
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

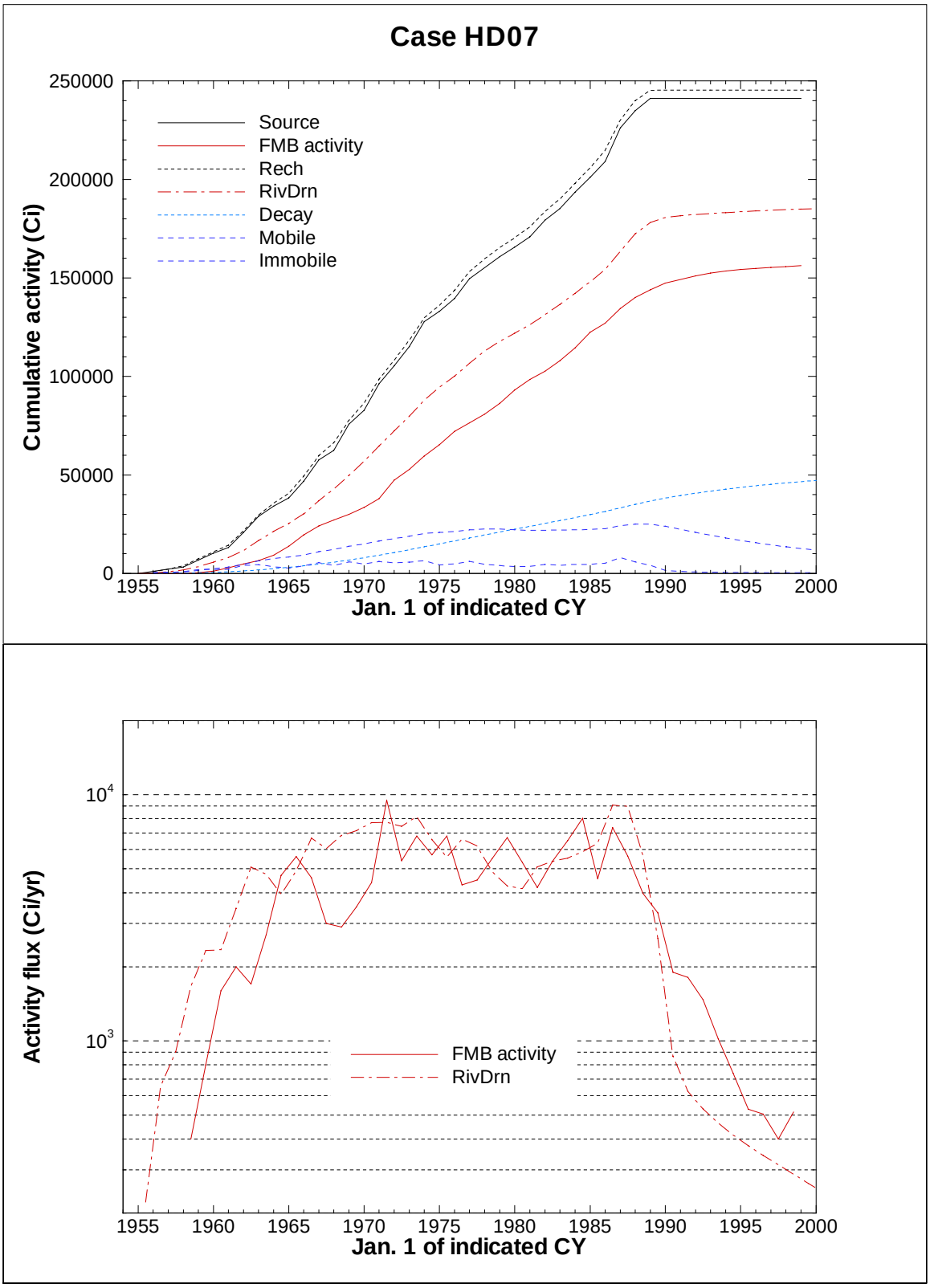

Case HD02
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

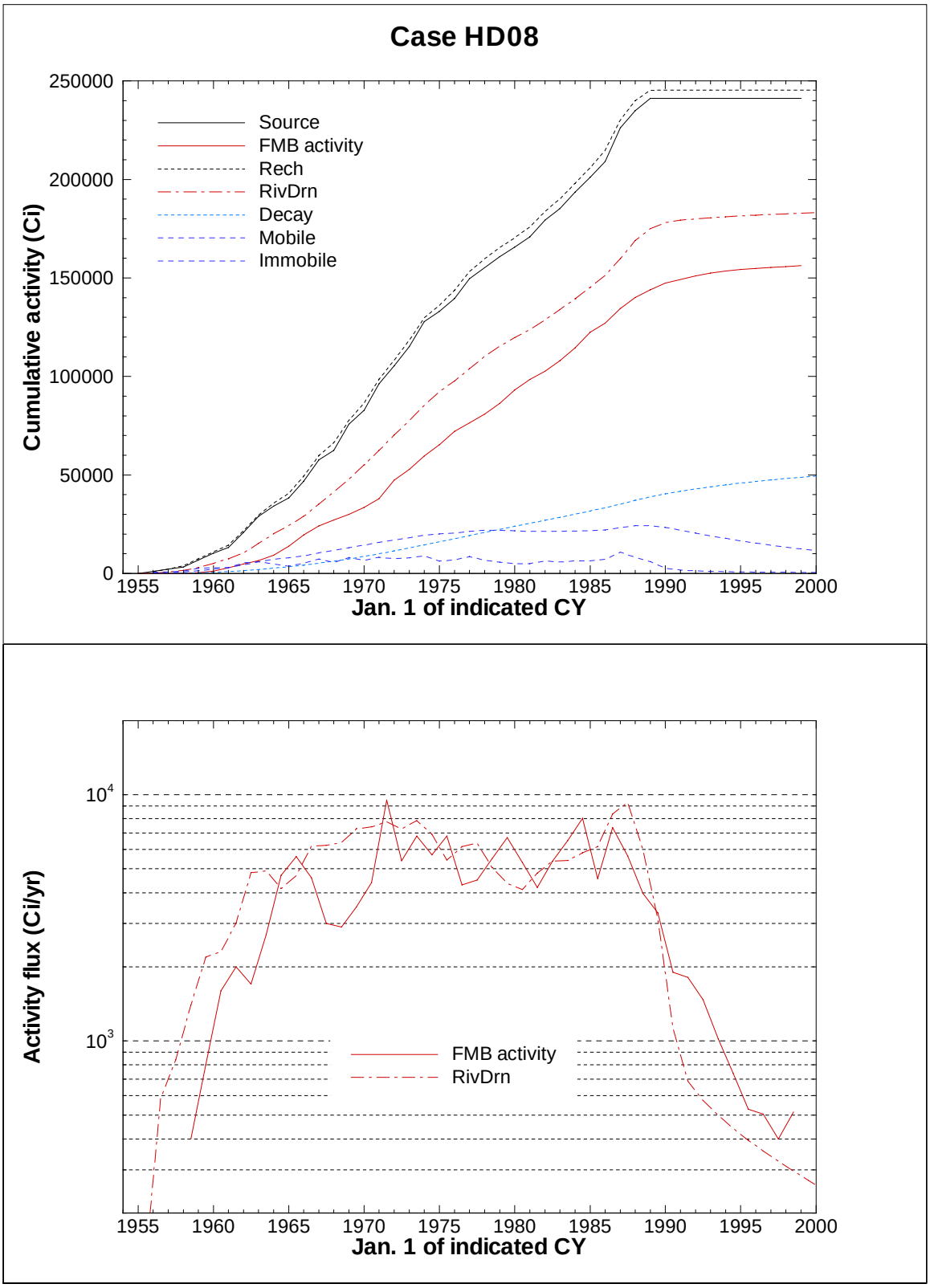

Case HD03
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

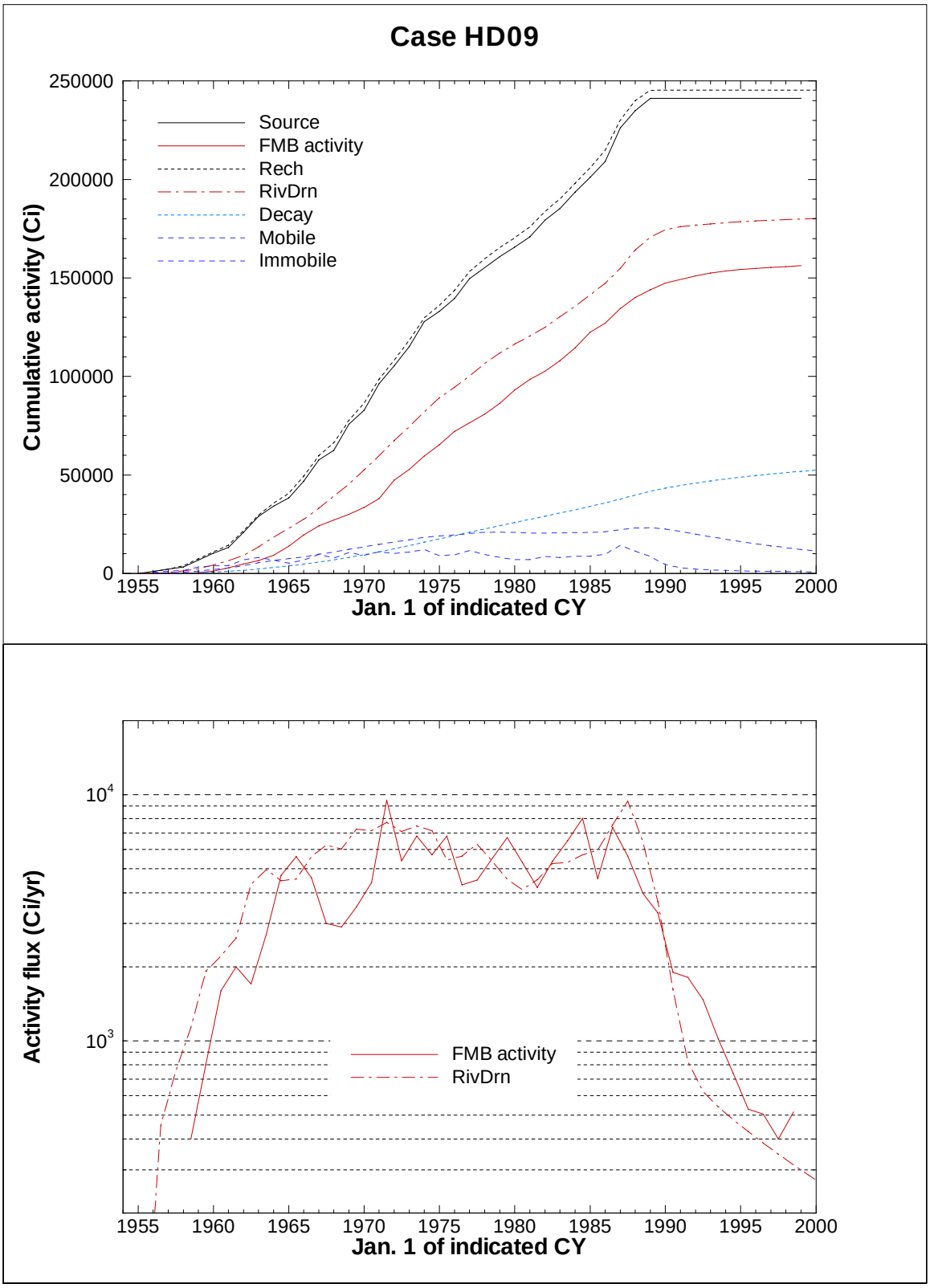

Case HD04a
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

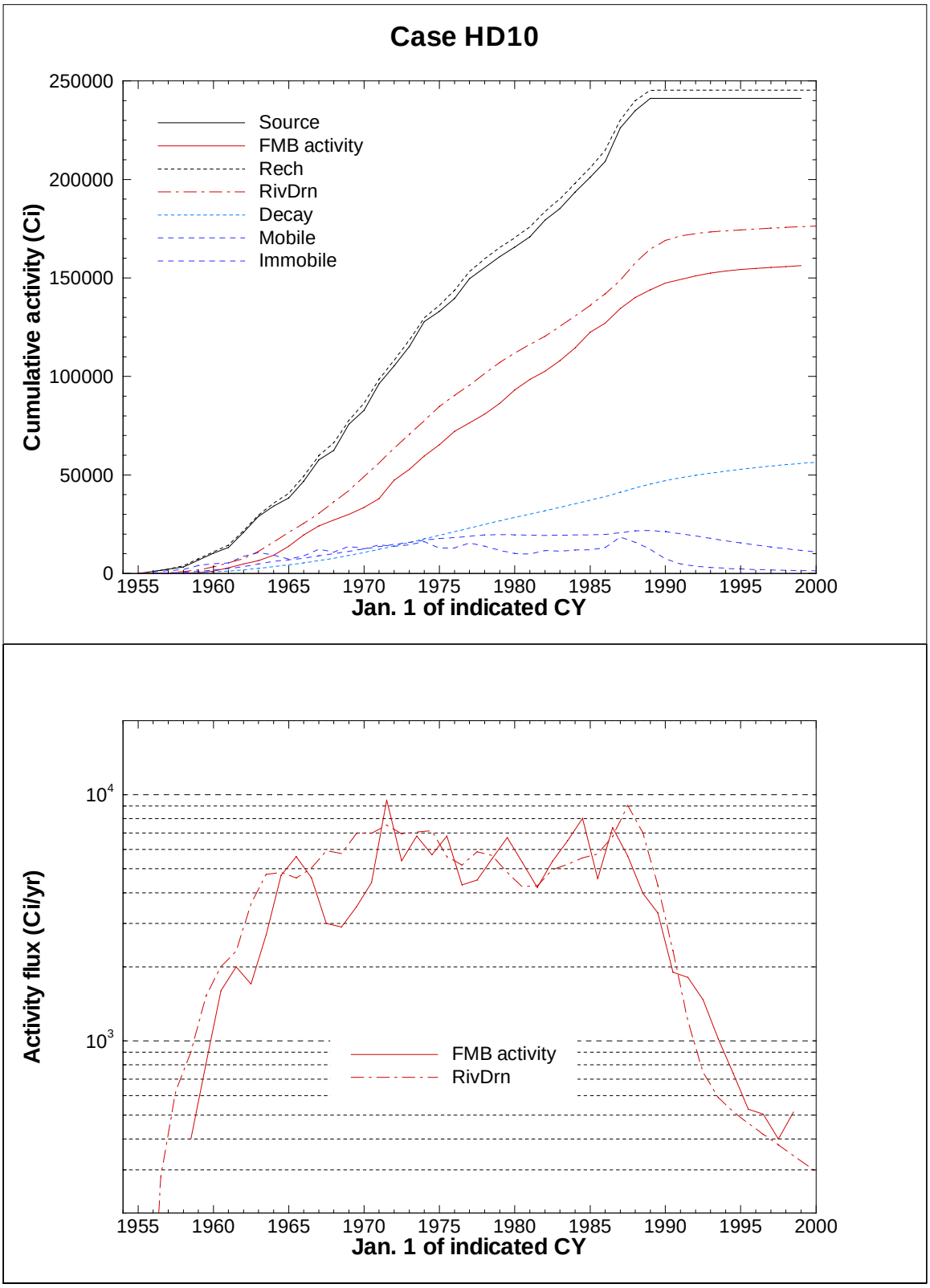

Case HD05
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

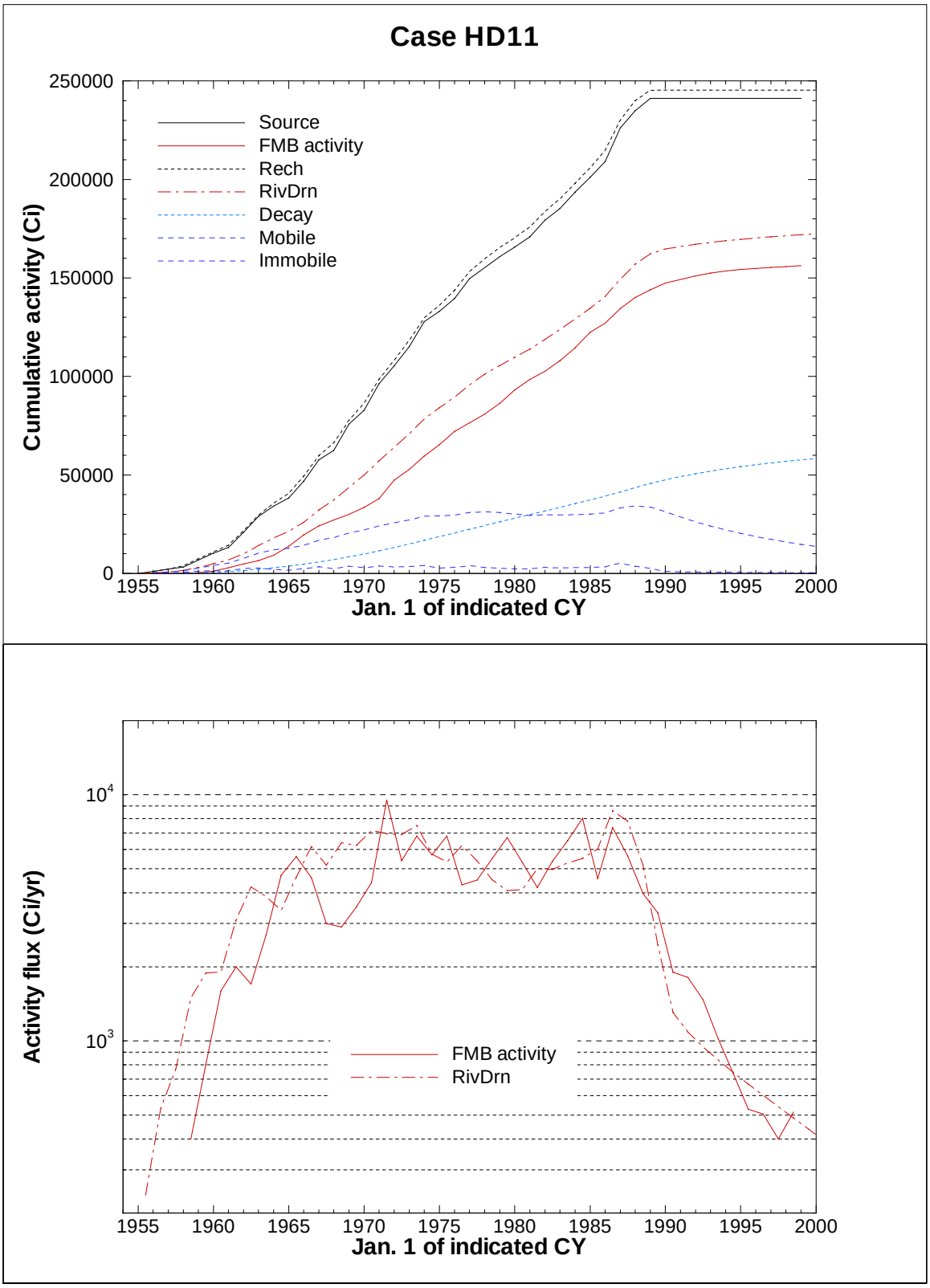

Case HD06
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

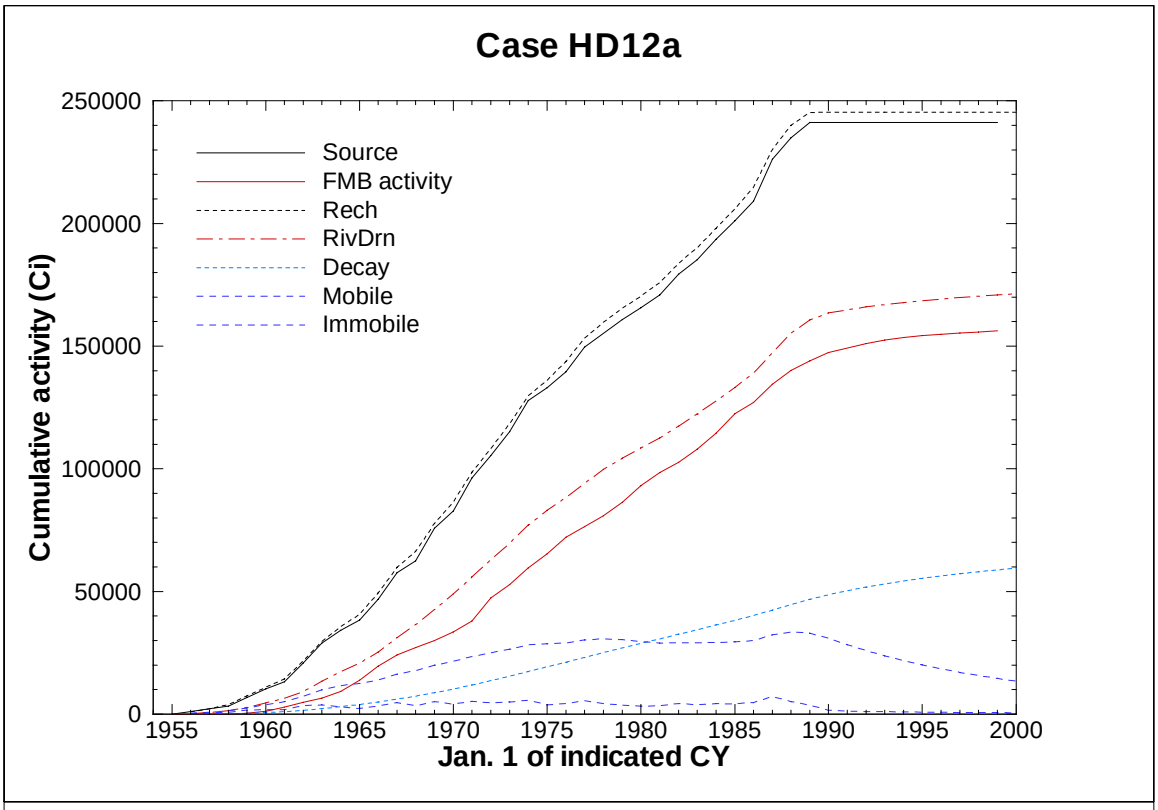

Case HD07
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

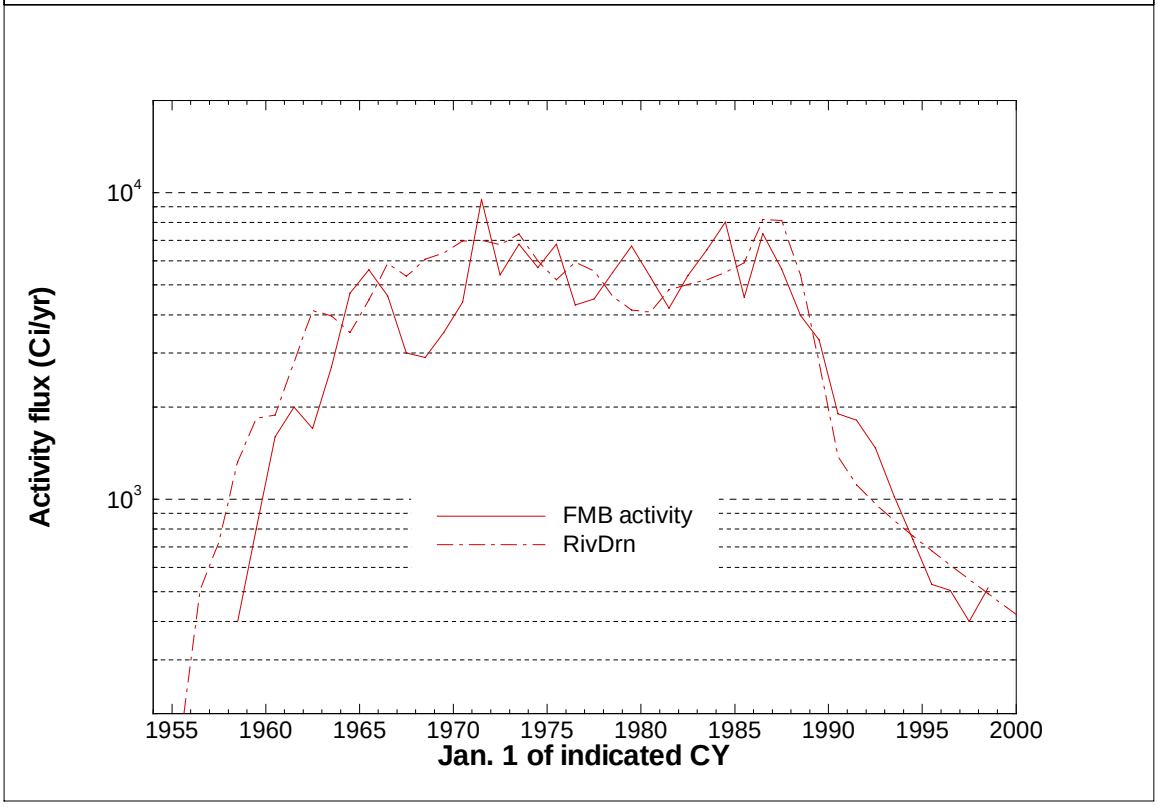

Case HD08
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

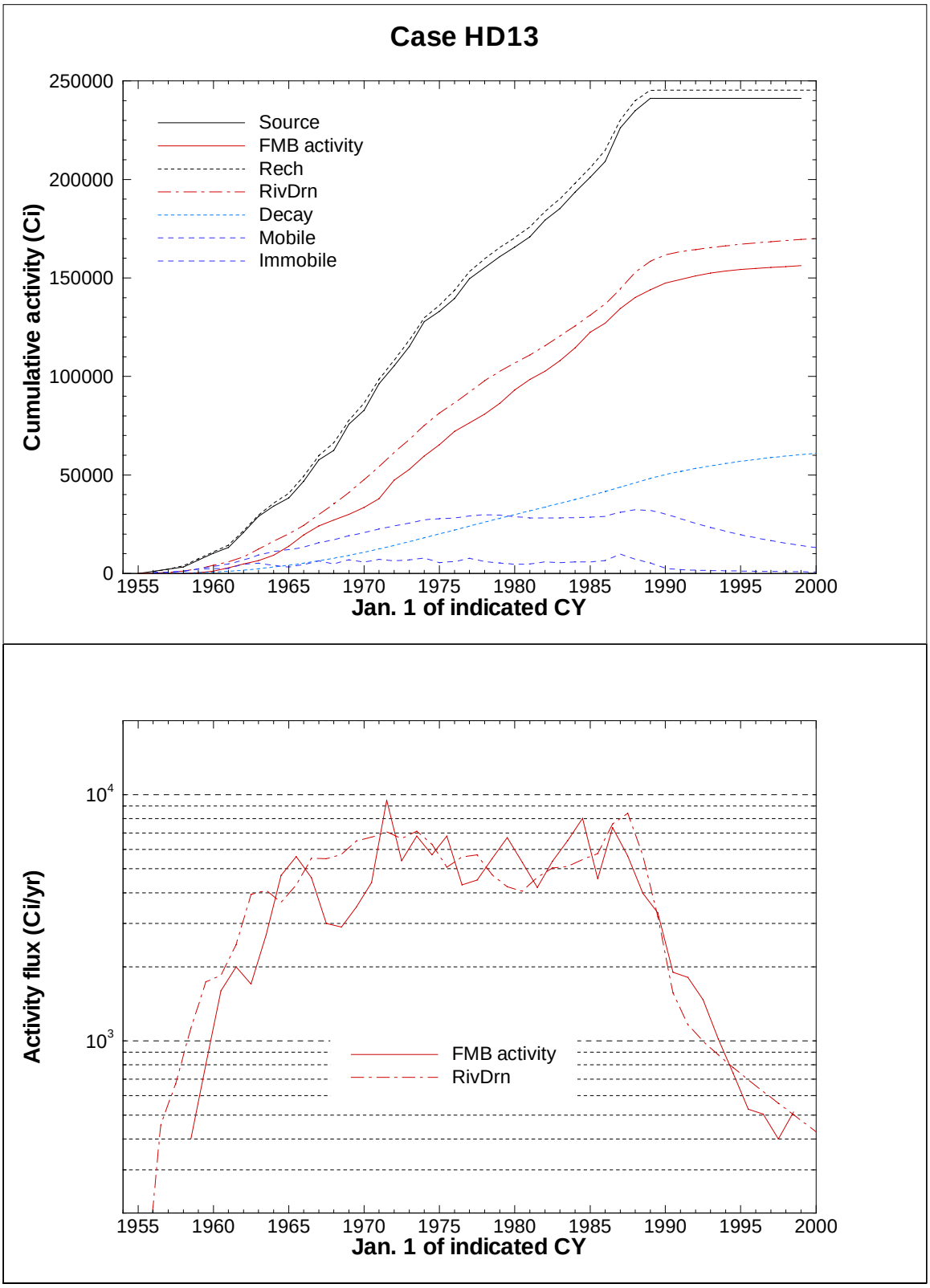

Case HD09
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

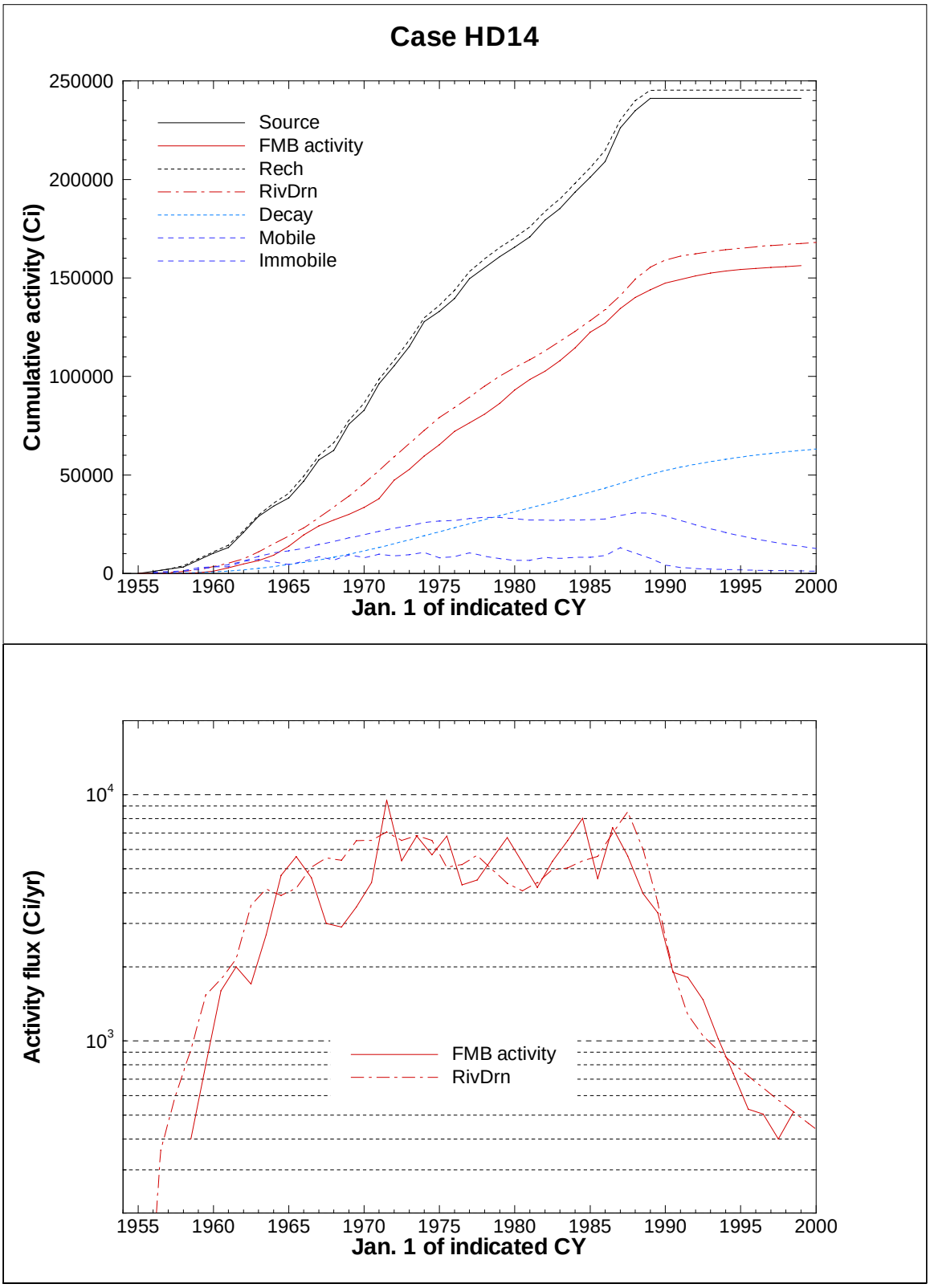

Case HD10
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

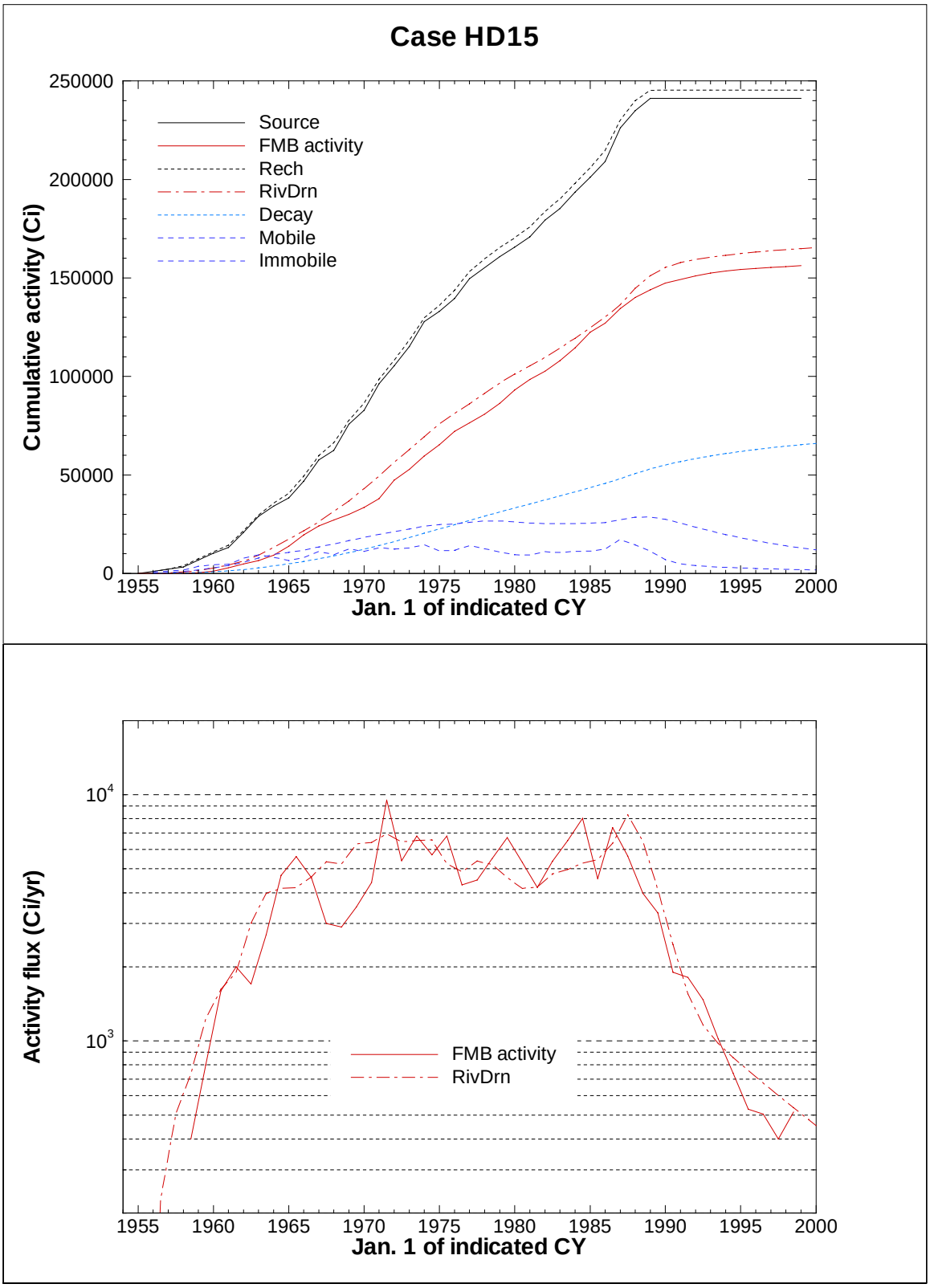

Case HD11
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

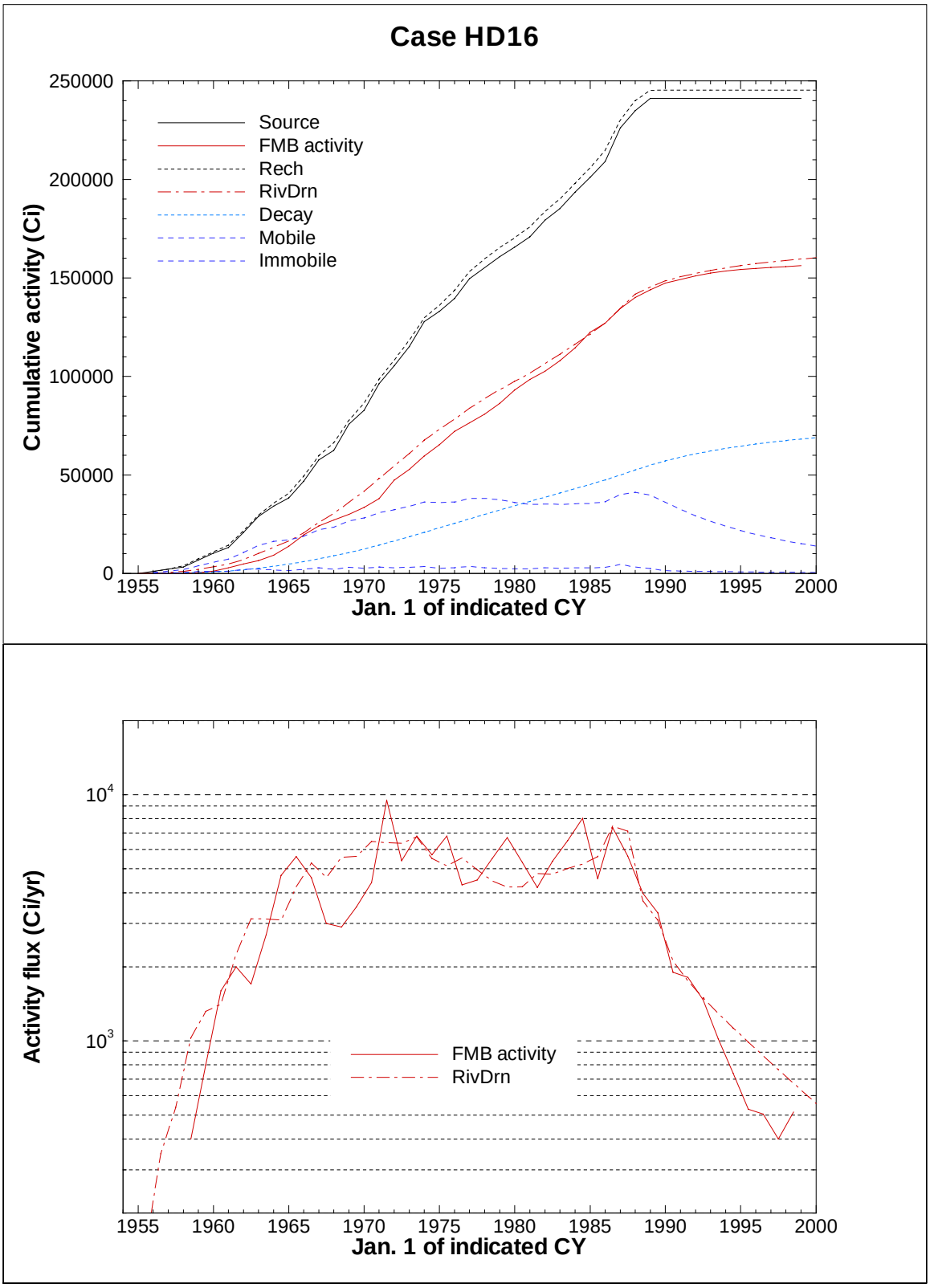

Case HD12a
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile

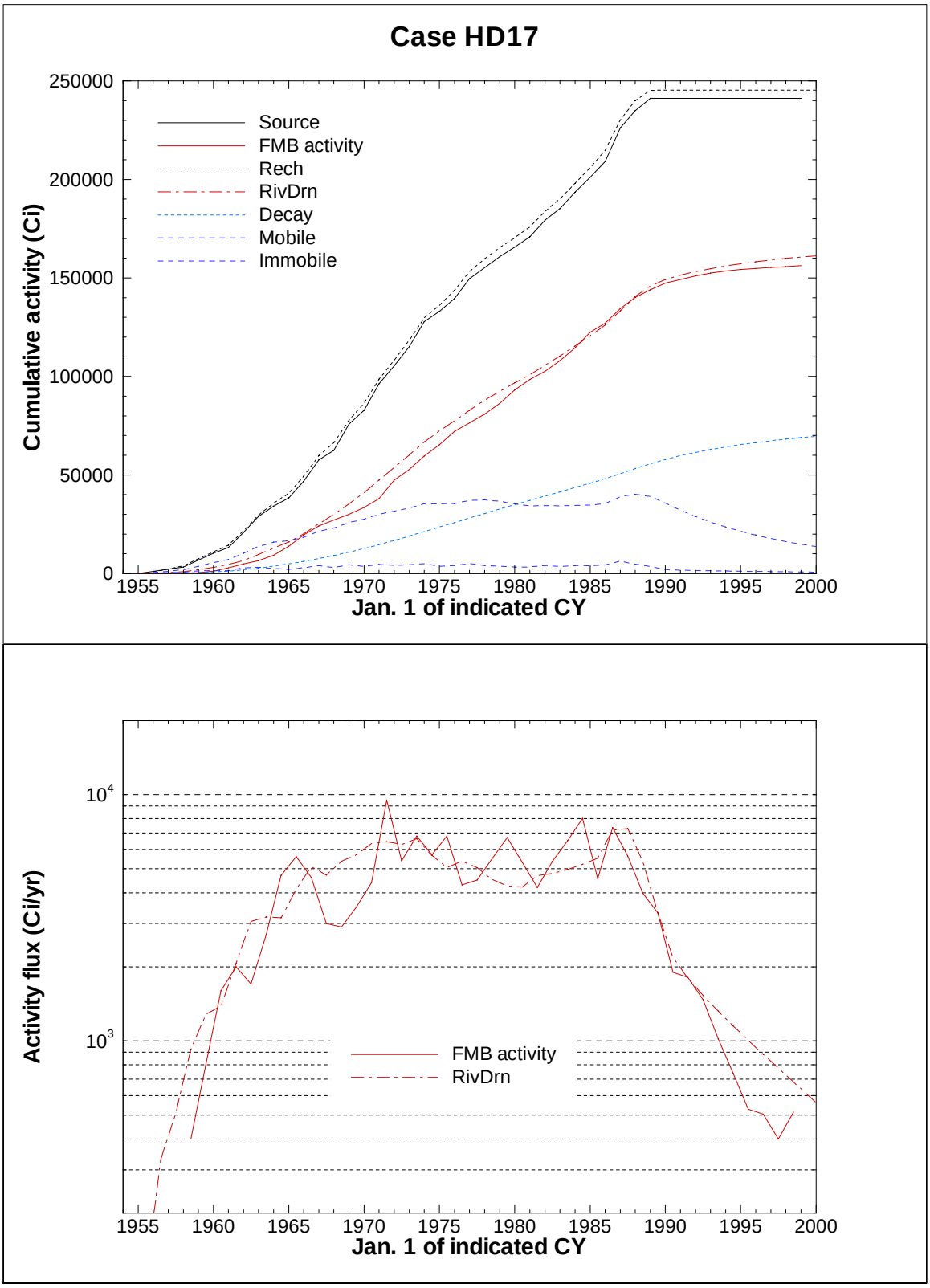

Activity flux (Ci/yr)
10^4
10^3
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
FMB activity
RivDrn

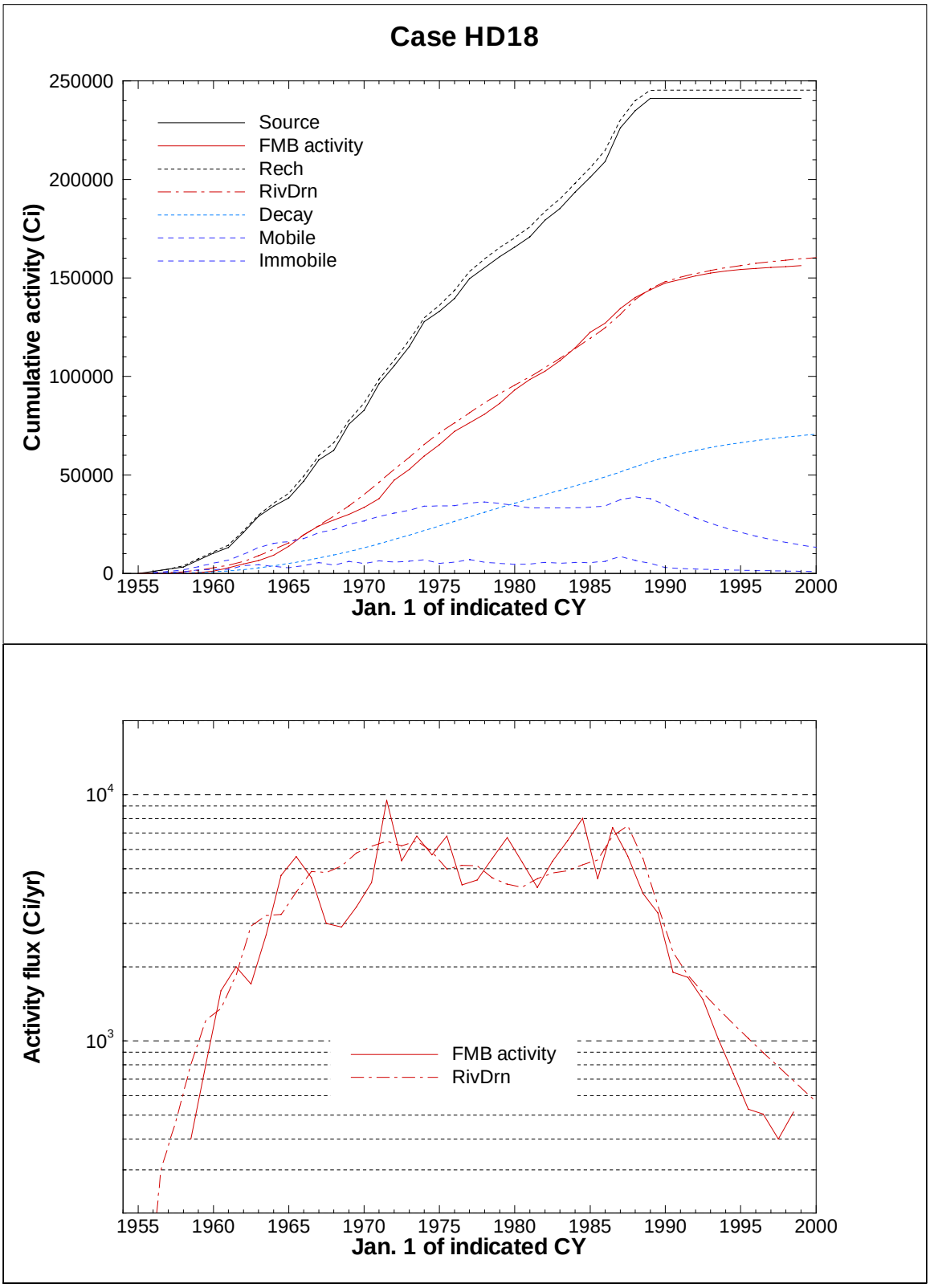

Case HD13
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

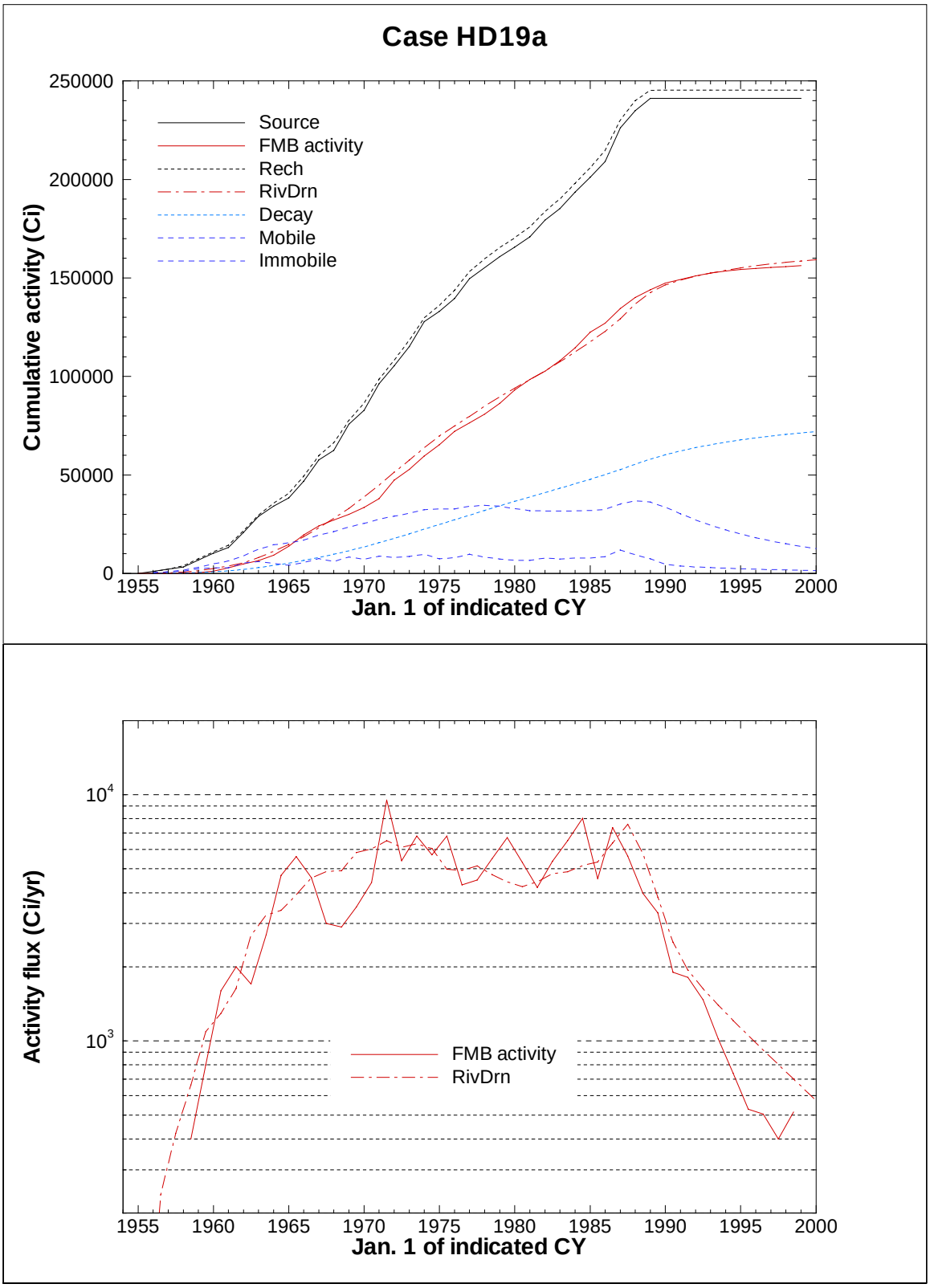

Case HD14
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

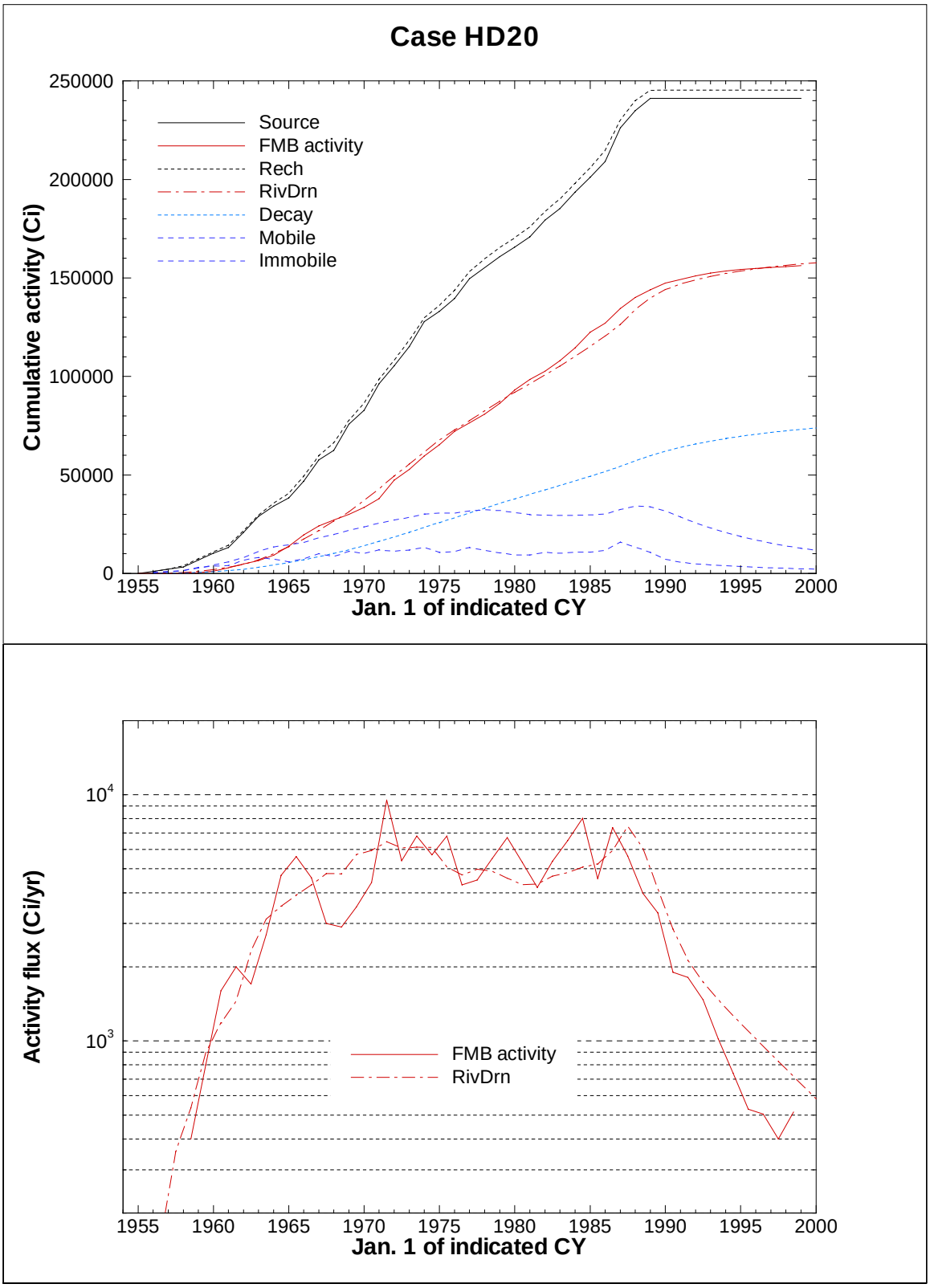

Case HD15
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

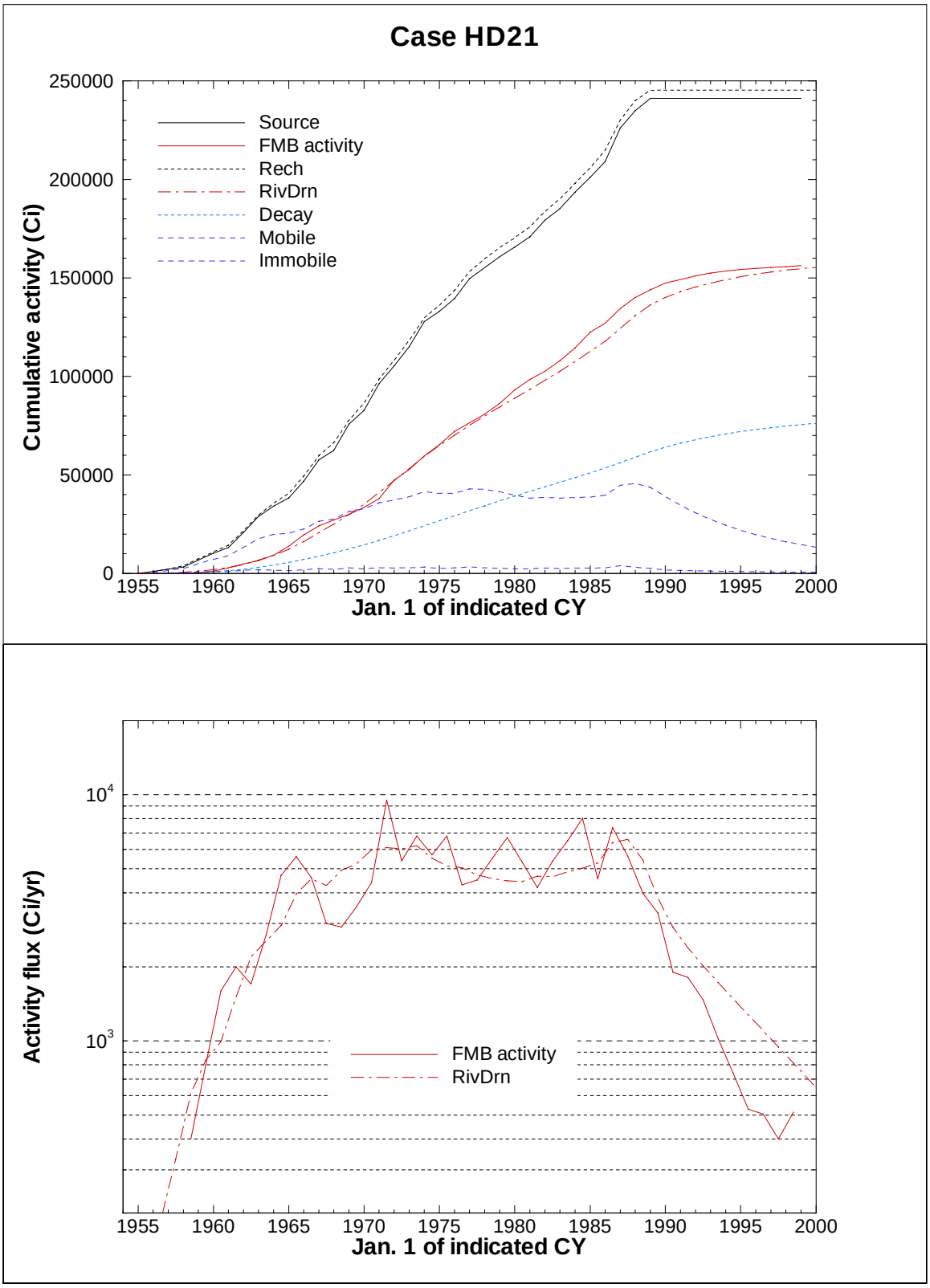

Case HD16
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

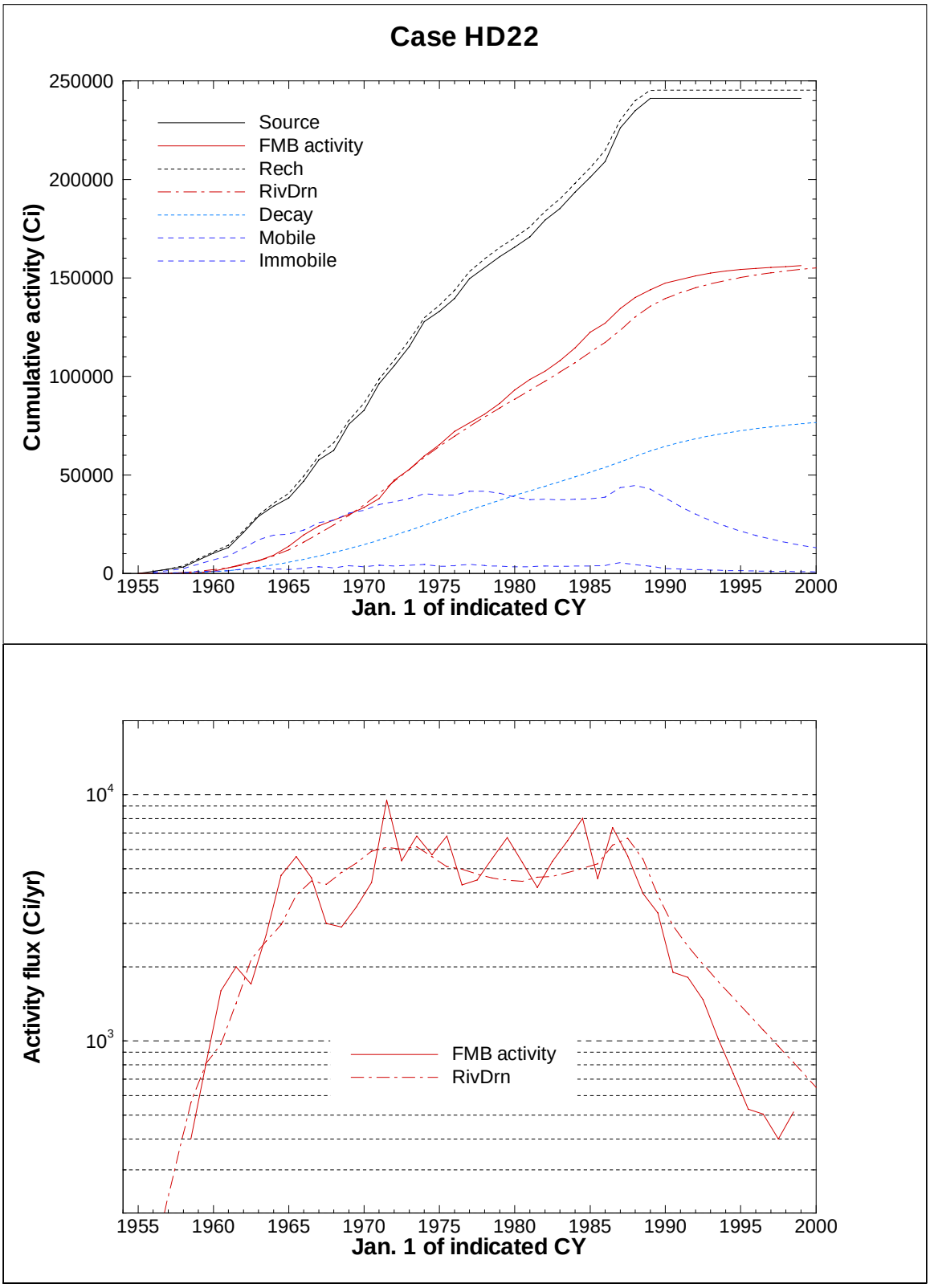

Case HD17
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

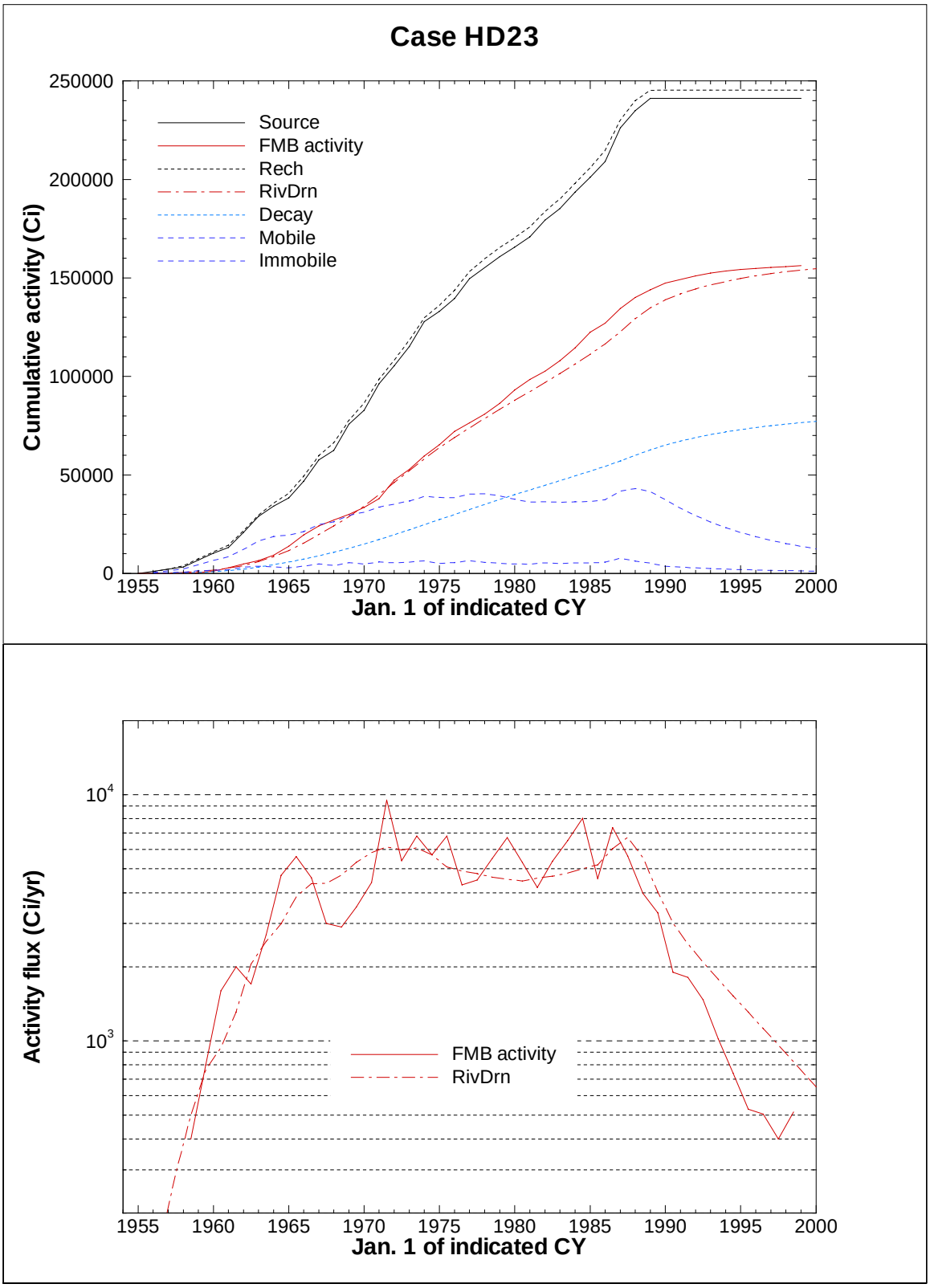

Case HD18
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

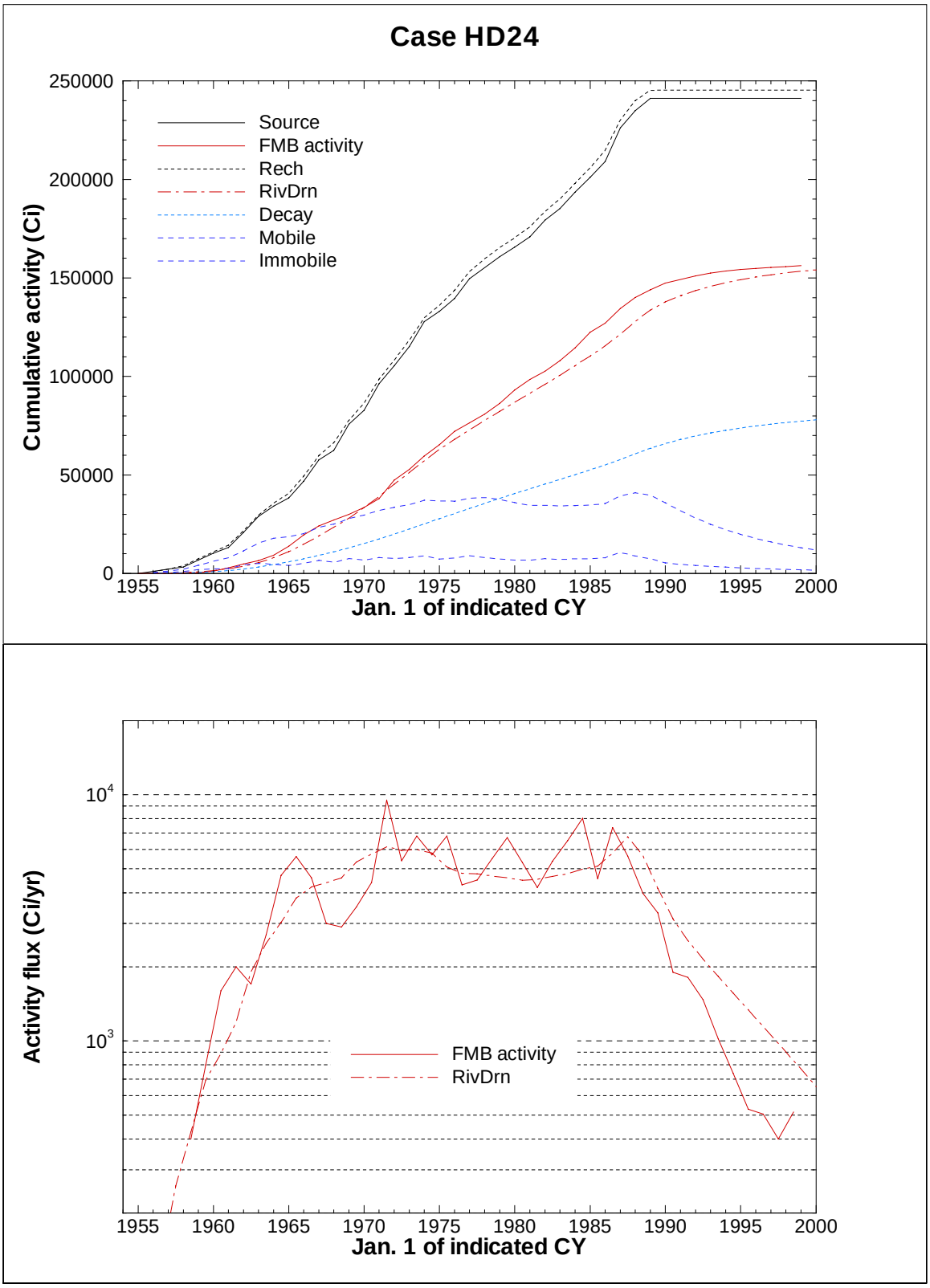

Case HD19a
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

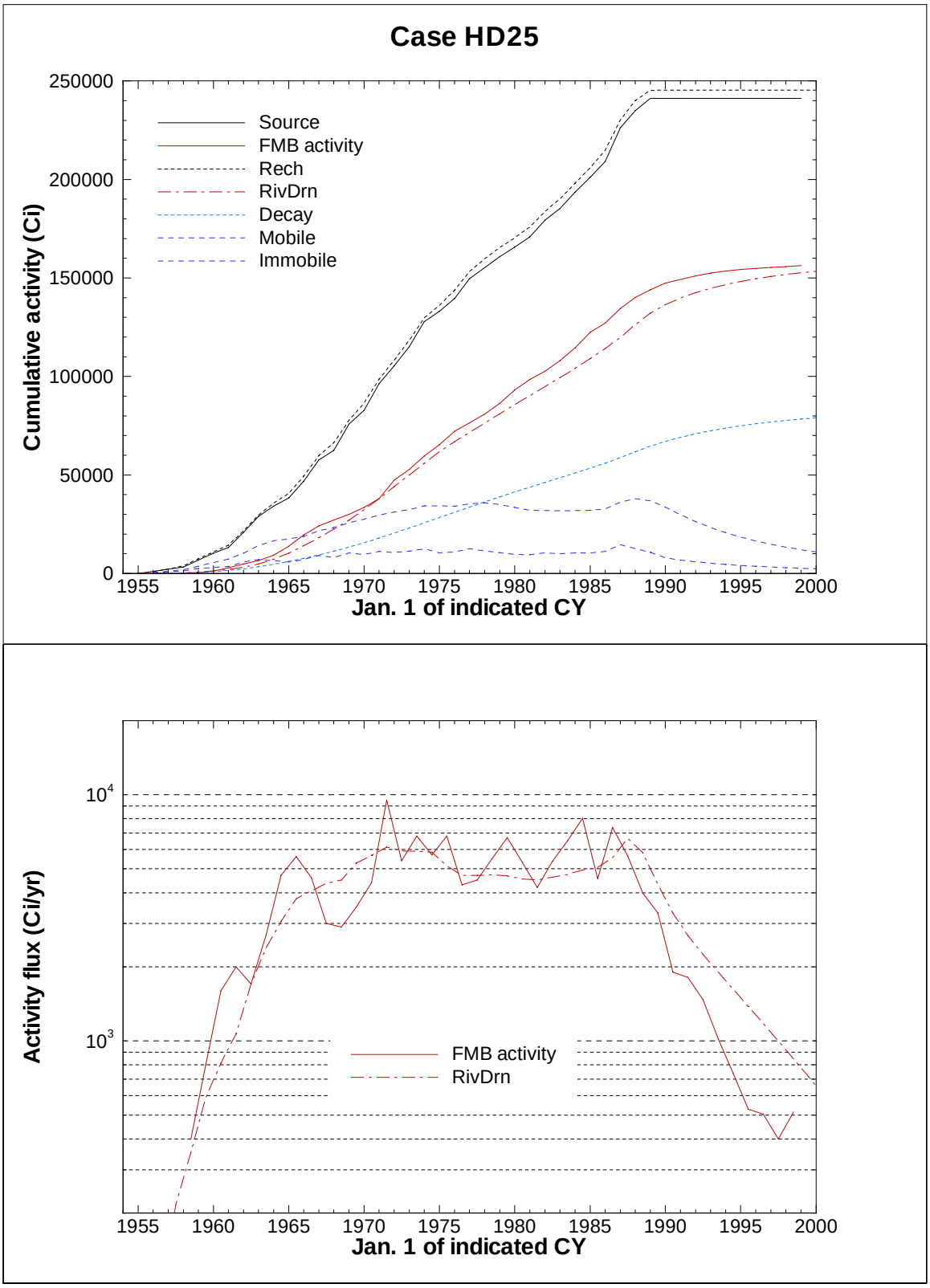

Case HD20
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

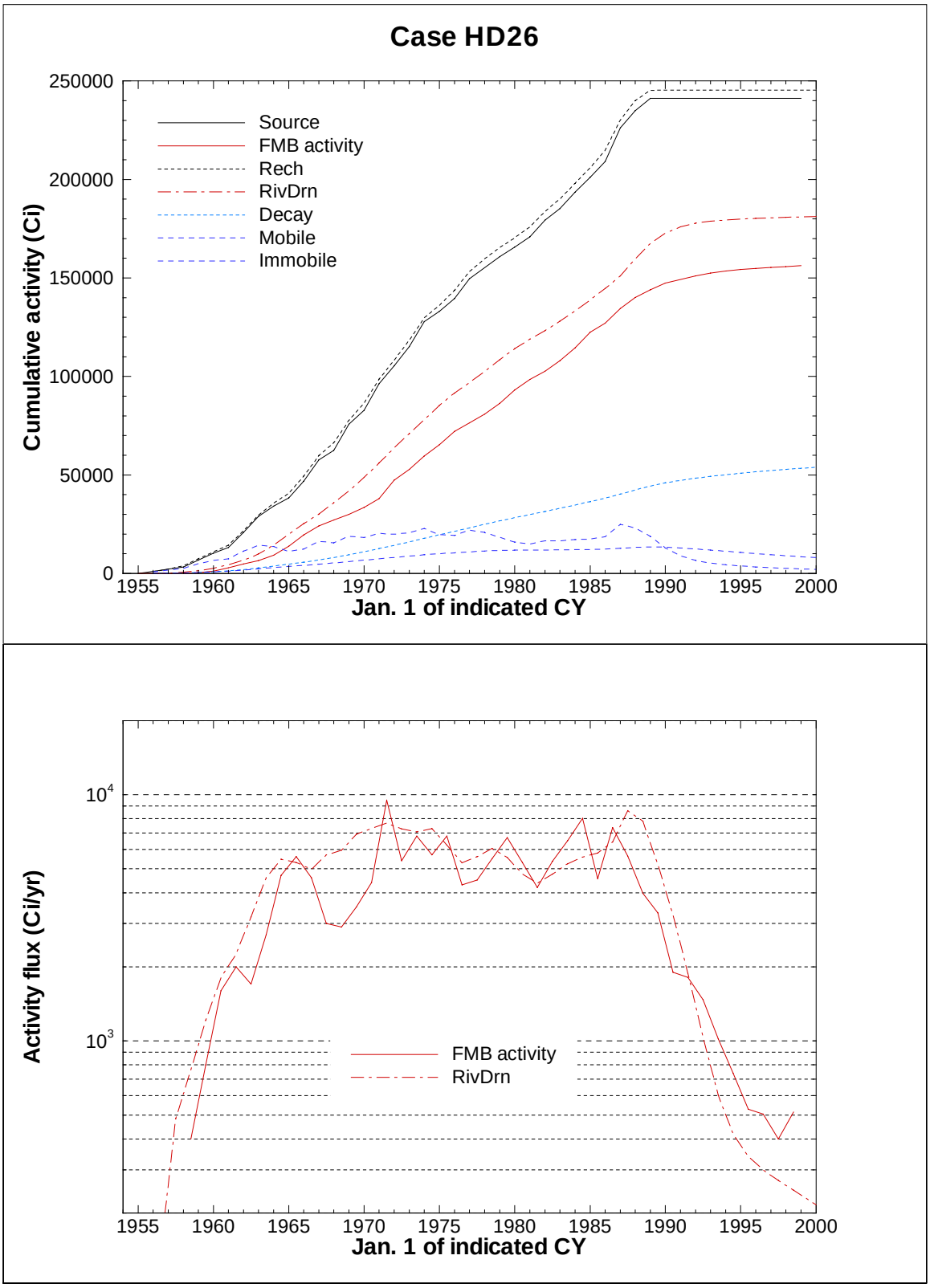

Case HD21
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

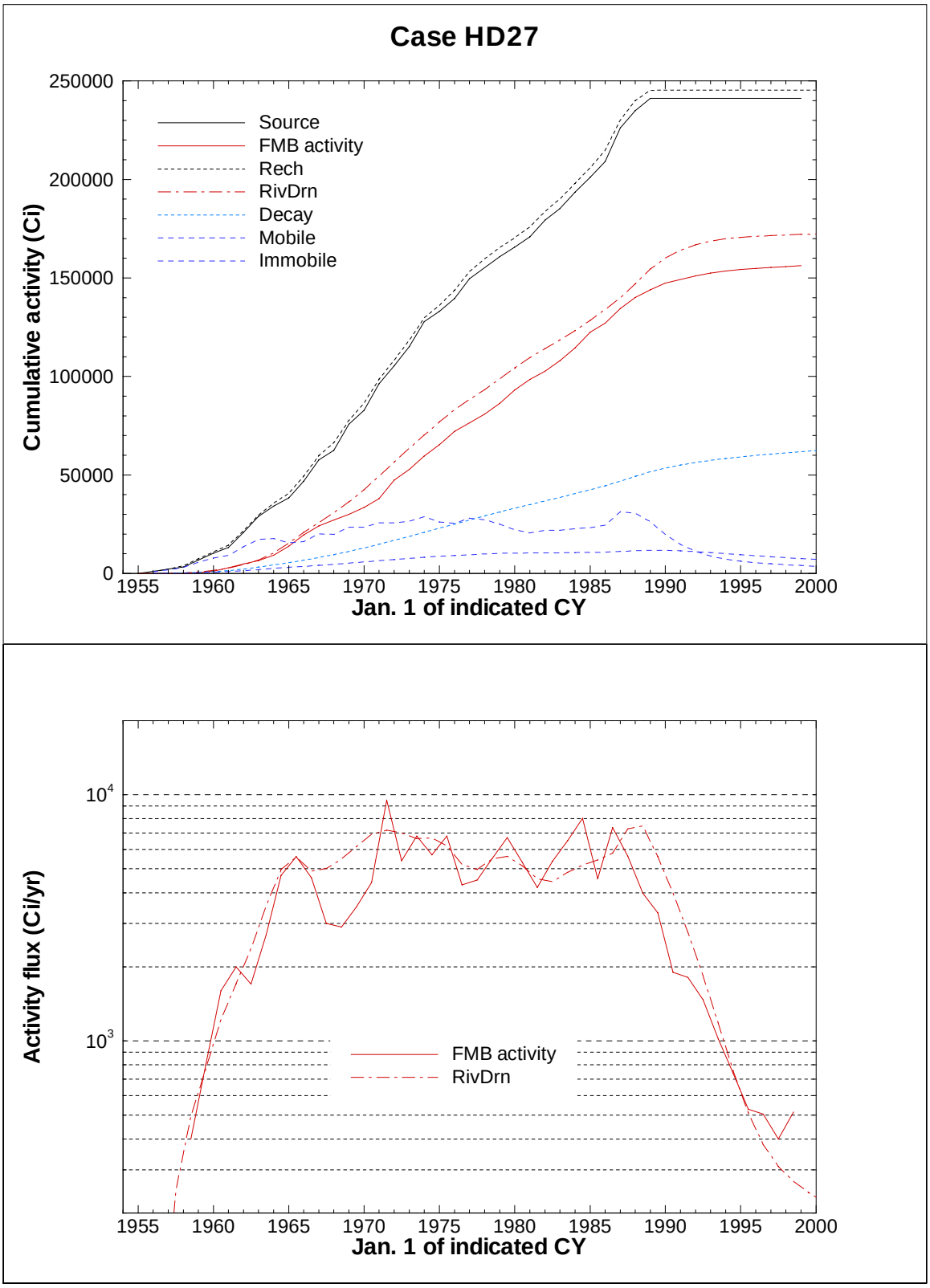

Case HD22
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

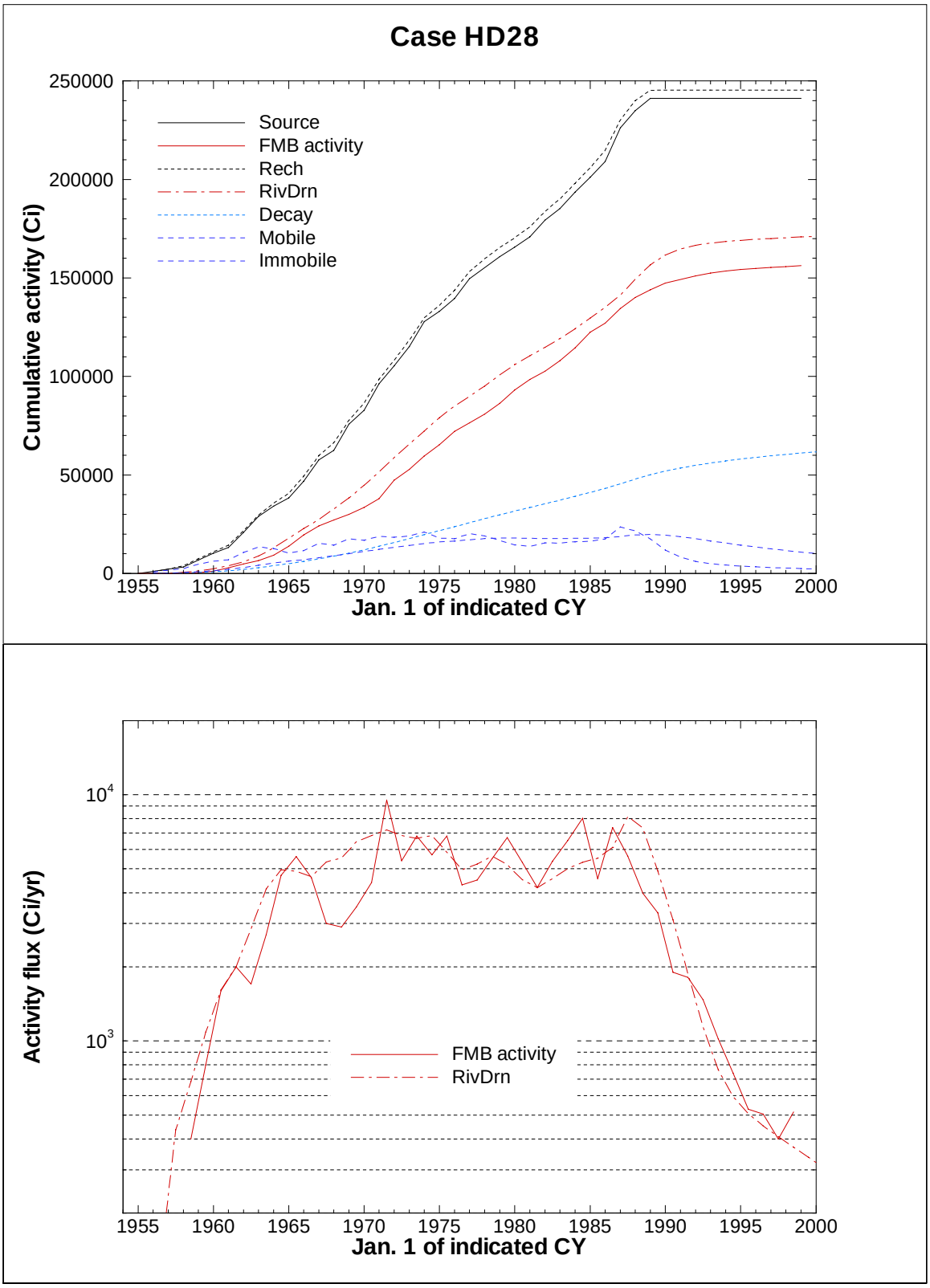

Case HD23
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

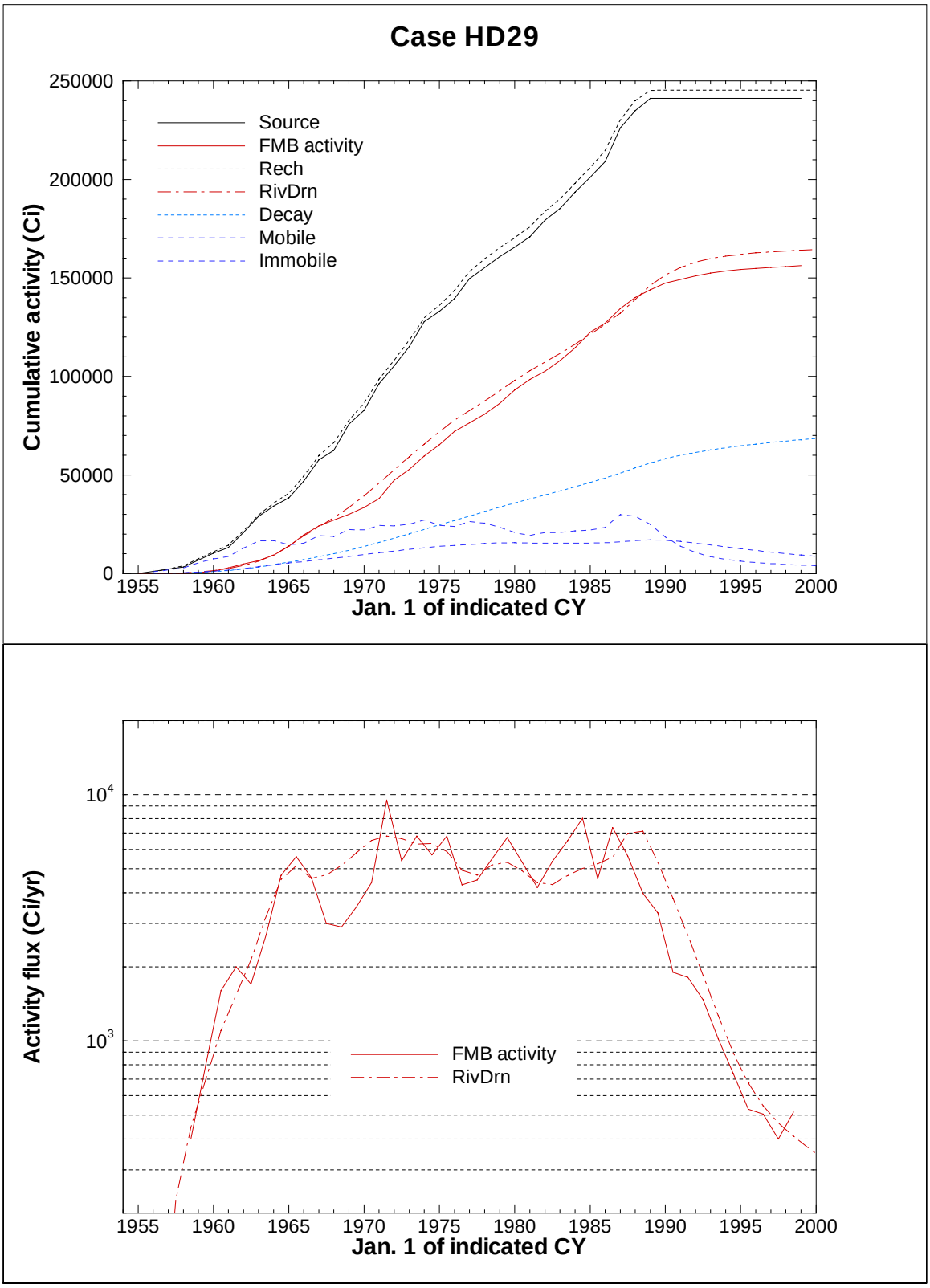

Case HD24
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

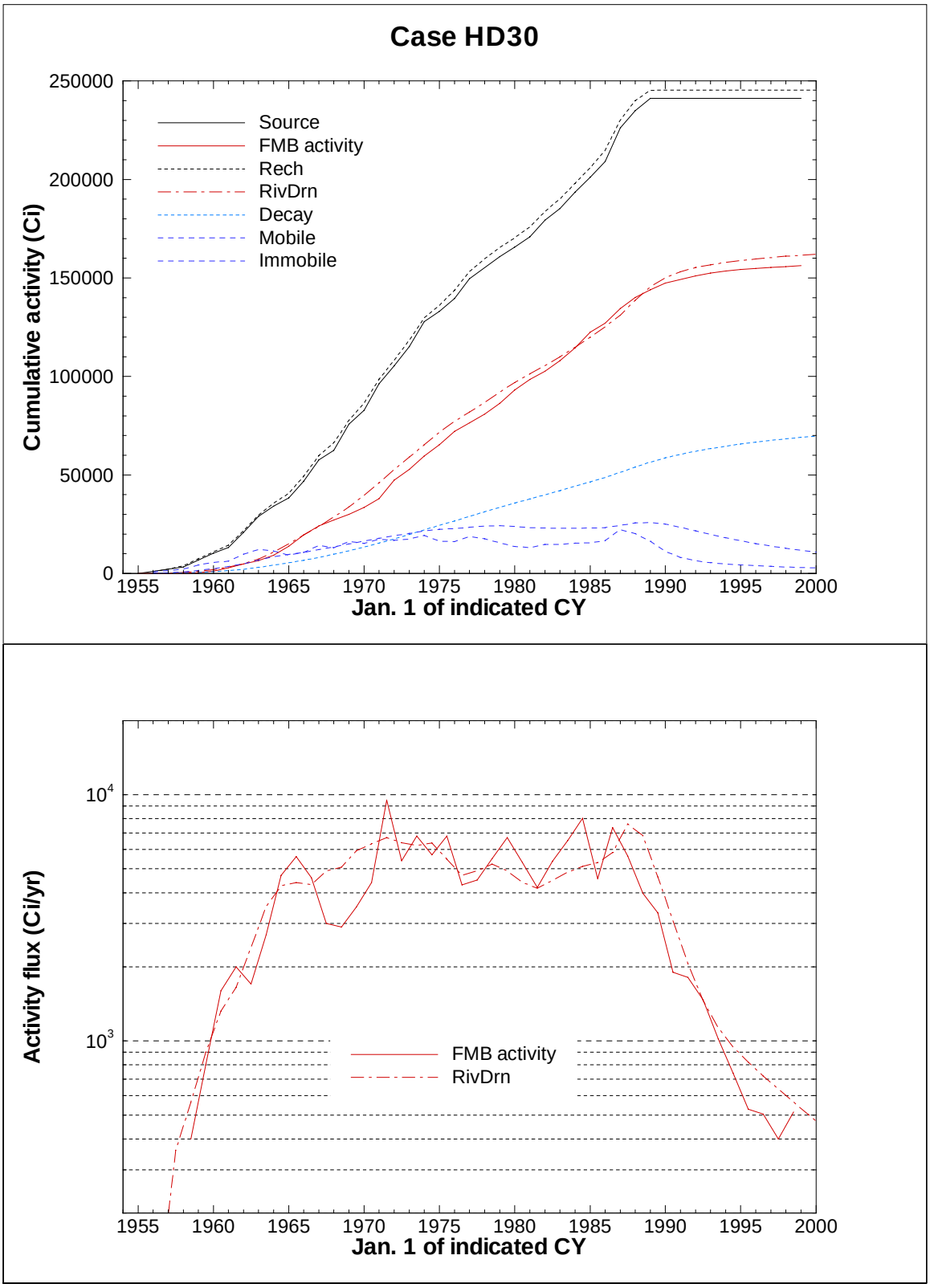

Case HD25
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

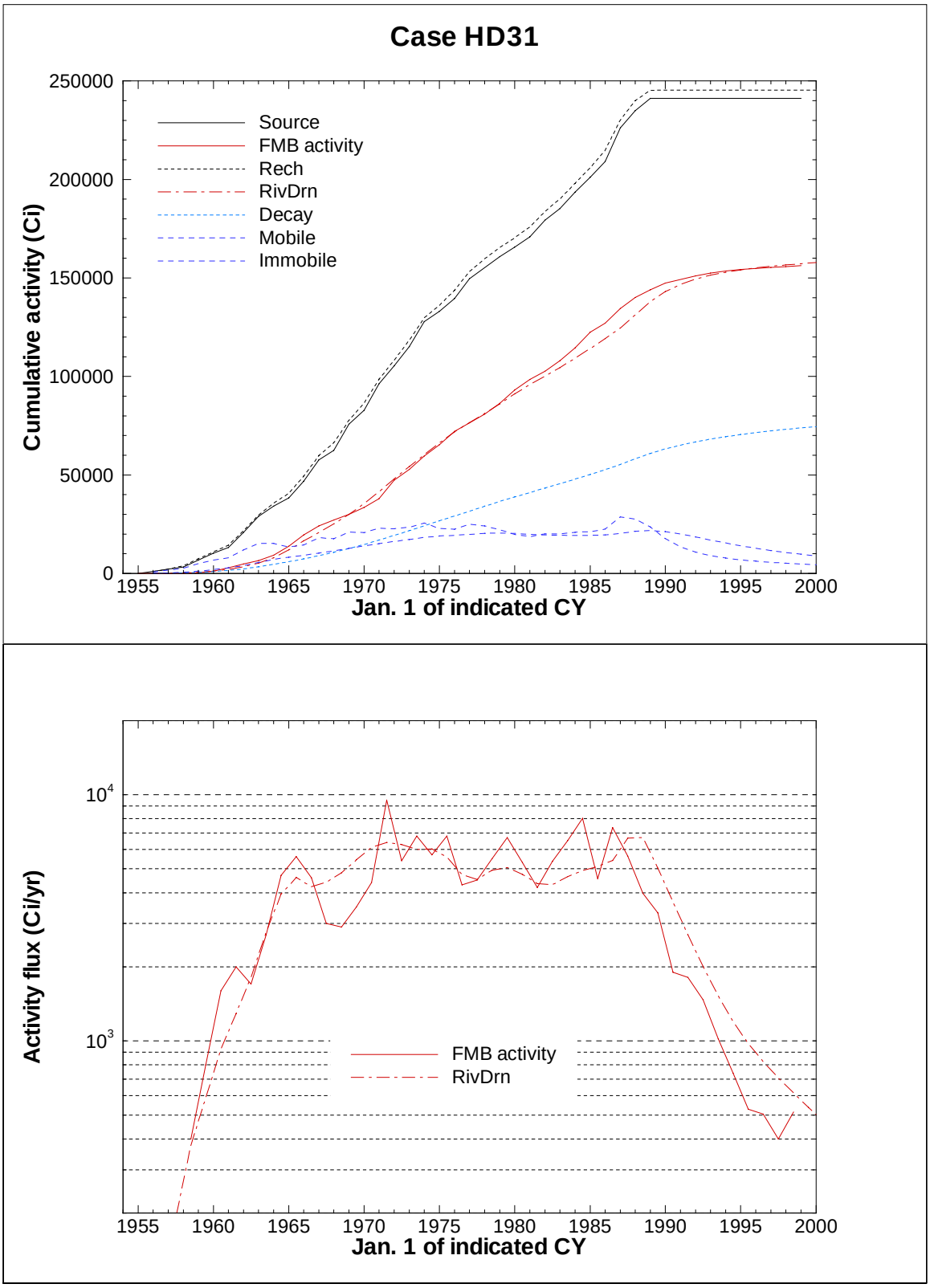

Case HD26
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

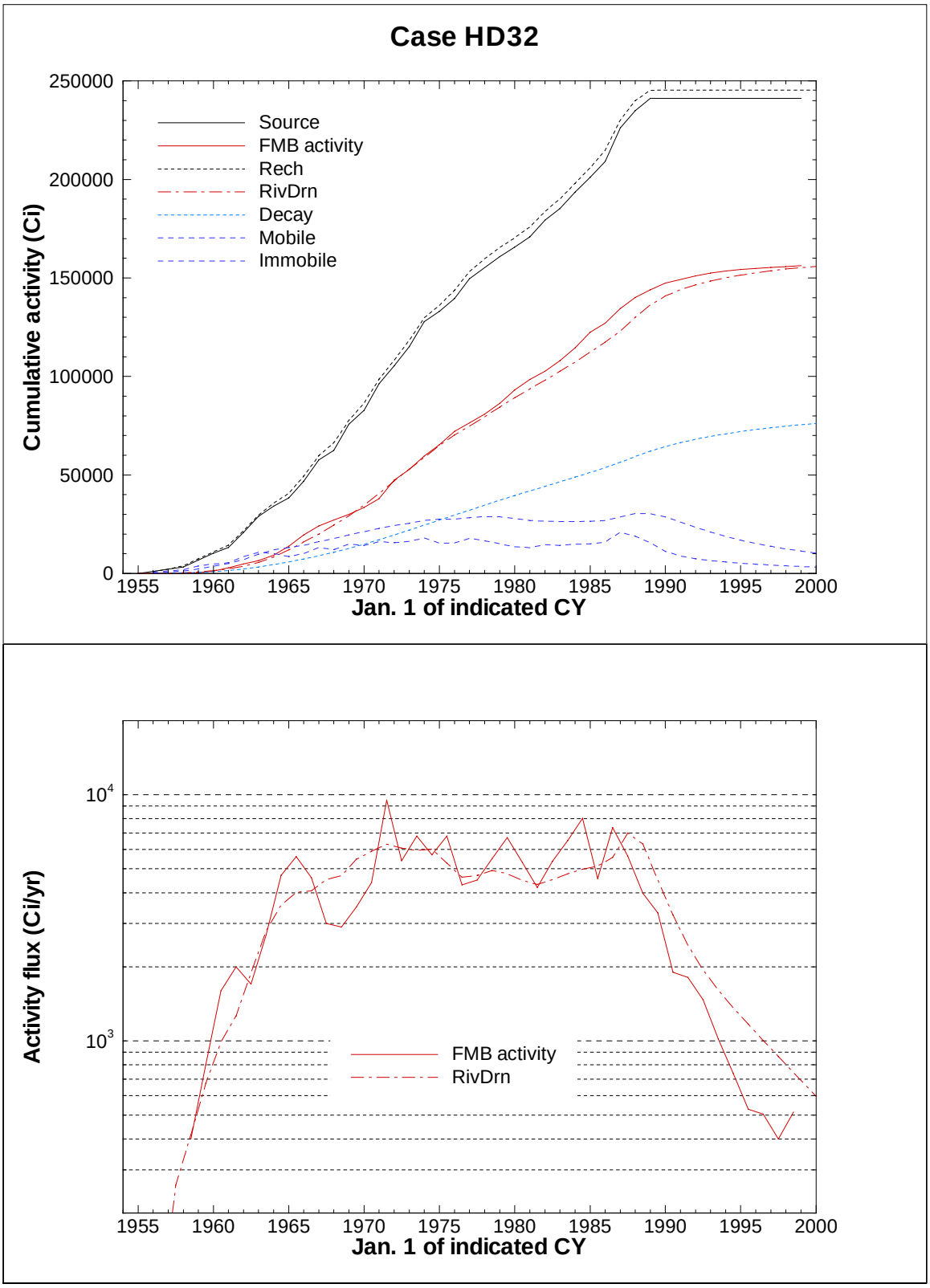

Case HD27
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

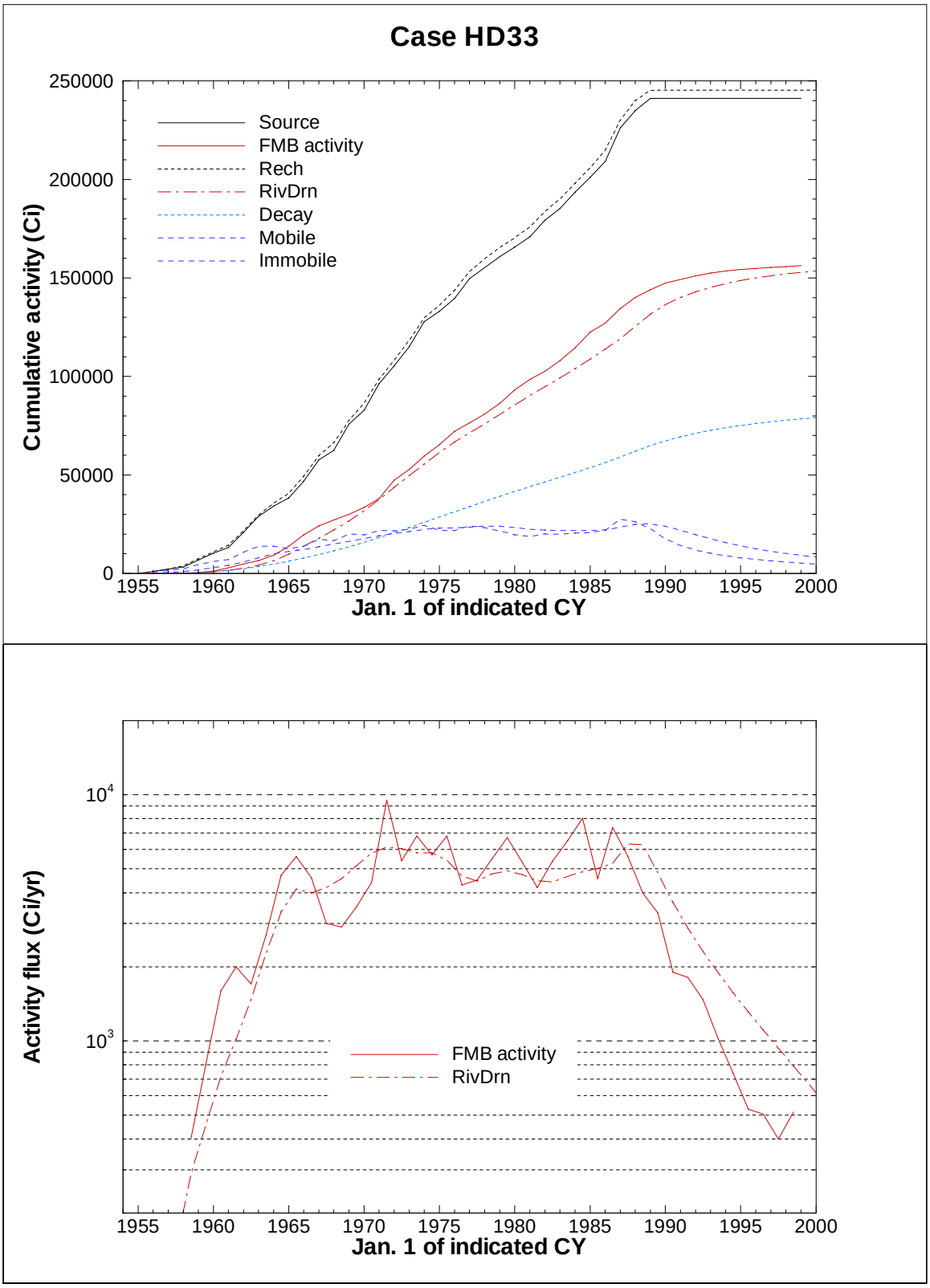

Case HD28
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

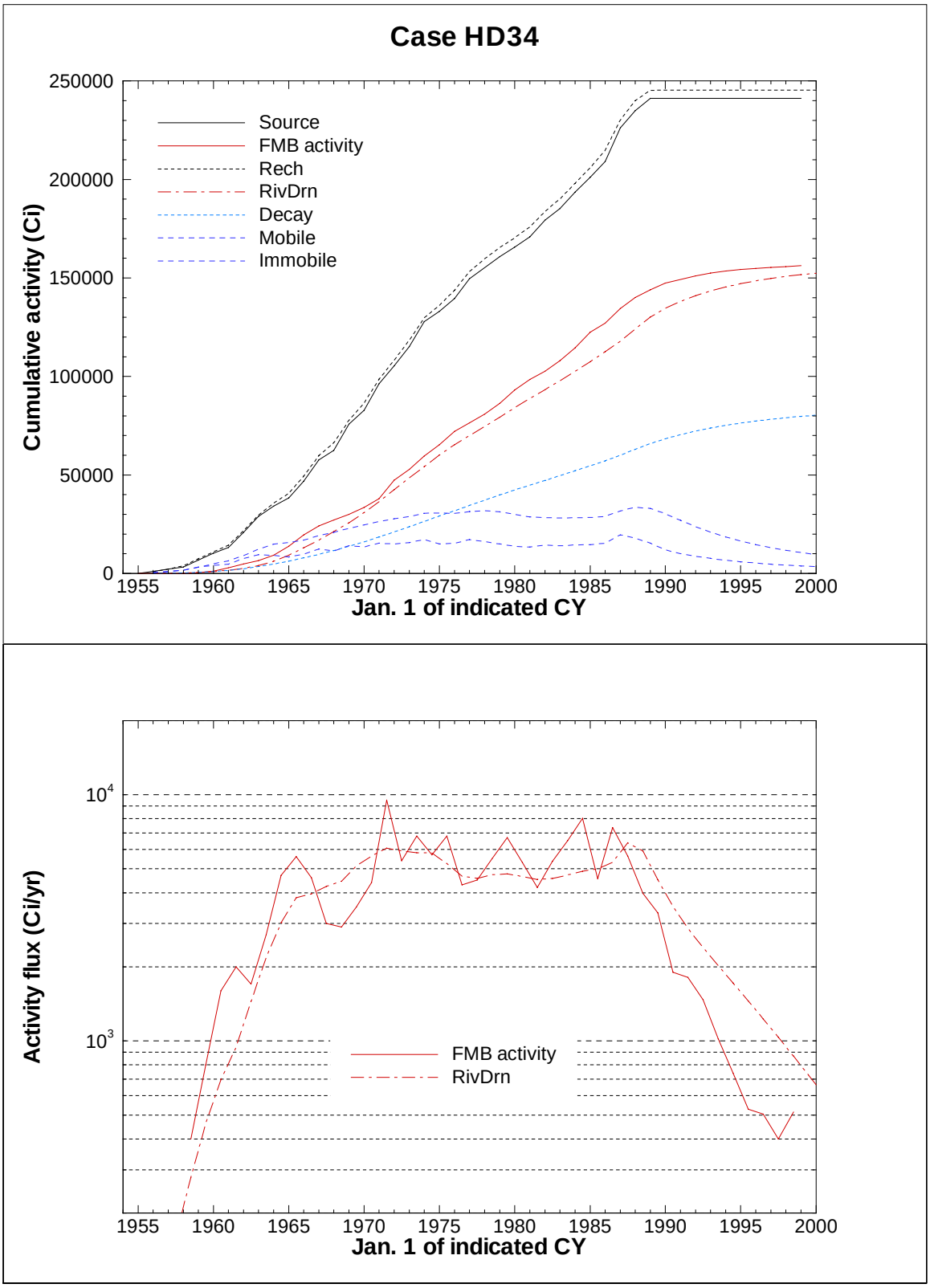

Case HD29
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

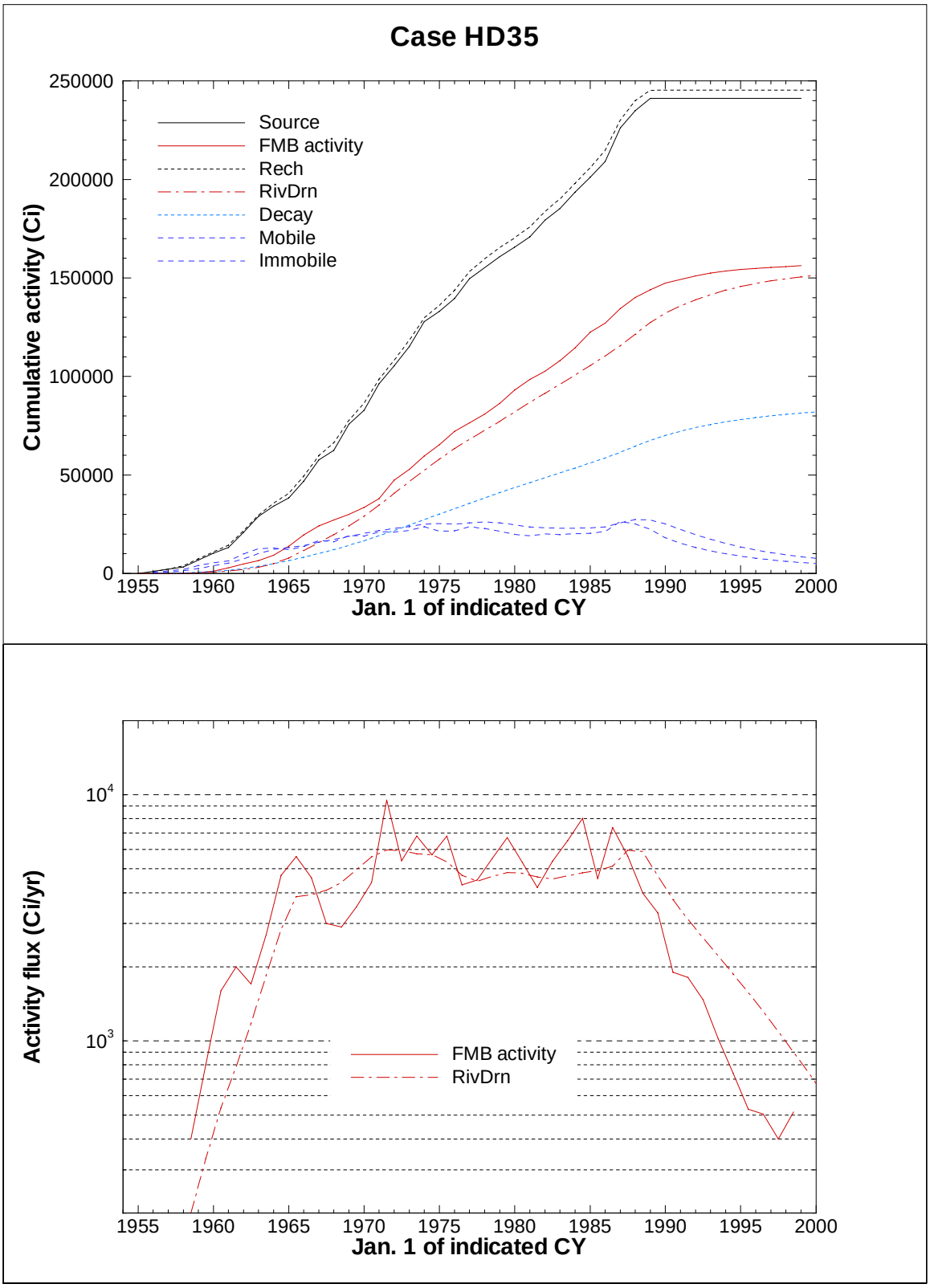

Case HD30
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY


Case HD31
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY


Case HD32
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY


Case HD33
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY


Case HD34
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY


Case HD35
Cumulative activity (Ci)
250000
200000
150000
100000
50000
0
Source
FMB activity
Rech
RivDrn
Decay
Mobile
Immobile
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY
Activity flux (Ci/yr)
10^4
10^3
FMB activity
RivDrn
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
Jan. 1 of indicated CY

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