

**Květen 2010: Srovnávací procedura  
Projekty PRIMOALL + BalING51 + Baliky (HARP)**

K výpočtům Ddepozice: v Baliky(HARP) je jen rozpad,  $E(t)=1$   
v PRIMOALL a BalING51 je méně konzervativní BUNZL

K výpočtům ingesce: 1) V PRIMO a BalING51: úbytek kořenové se děje jen podle rad rozpadu  
v Baliky (HARP) : nejen rozpad, ale i migr a fixace, takže výpočty jsou méně konzervativní  
viz dále: když dám C natvrdo: RLAMK=7.326E-10, jsou výsledky OK s PRIMO  
2) Nový algoritmus ingesce pro děti (dítě stárne v kontaminované oblasti) je implementován pouze v HARP\_EGP (testy ukázaly, že ve srovnání se starým způsobem dochází k malým rozdílům – ale pozor, to je zřejmě způsobeno též zadanou grupou nuklidů s totální převahou  $^{131}\text{I}$ )

K výpočtům resuspenze: Délka celého výpočtu podstatně závisí na kroku numerické integrace.  
V PRIMOALL je dán krok = 1 den, trvá tedy na př. 50ti letá dávka velmi dlouho.  
V BalING51 je krok 150 dni, běží velmi rychle  
V Baliky v HARP\_EGP je krok resuspenze 10 dní = střední rychlost výpočtu, ale místo základního koef resuspenze používá dvousložkovou resuspenzi podle OSCAAR

Testy resuspenze v PRIMOALL (jen  $^{137}\text{Cs}$ , děti  $a=2$ ):  
skok LDEN= 50 dnů 50-ti letá dávka z resusp. =  $1.50\text{E-}04$  Sv  
skok LDEN= 10 dnů 50-ti letá dávka z resusp. =  $5.99\text{E-}05$  Sv  
skok LDEN= 1 den 50-ti letá dávka z resusp. =  $4.50\text{E-}05$  Sv  
( to samé podle dvousložkového v HARP:  $2.47\text{E-}05$  Sv)  
obecně příspěvek resuspenze je asi o 3 řády menší než sama 50ti letá eff

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A) Jen CS137: **CS137** **3.00E+13**

PRIMOALL (smer6,dospeli, jen Cs137, 50ti letá), doba uniku=2hod

výběr ze SPAD.OUT:

Efektivni davky (Sv) podle cest pro: Dospeli ,segment č. 1/ 1  
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3SEGM\_PARANO\_PRIMO\_CEZ\_NJZrev2  
May22\_2010, jen CS137, 1seg, 6smer, D, prsi2MM

MODEL, KPS, KRK, THAVhod TBdny, ING, TSPD, TING :  
2 6 0 2.0000E+00 1.8250E+04 T 1.82E+02 5.17E+02

XREAL(K)	Efektivni za dobu TB (Sv)	mrak (Sv)	ddepo za TB (Sv)	inhalace (Sv)	inh(resus.) za TB (Sv)	ingesce za TB (Sv)
500.00;	1.43E+00;	1.81E-06;	6.46E-01;	2.32E-04;	5.55E-06;	7.87E-01;
1500.00;	5.64E-01;	7.48E-07;	2.54E-01;	4.94E-05;	2.18E-06;	3.10E-01;
2500.00;	3.62E-01;	3.87E-07;	1.63E-01;	2.12E-05;	1.40E-06;	1.99E-01;
3500.00;	2.69E-01;	2.35E-07;	1.21E-01;	1.19E-05;	1.04E-06;	1.48E-01;

4500.00;	2.26E-01;	1.56E-07;	1.02E-01;	7.66E-06;	8.75E-07;	1.24E-01;
5500.00;	1.78E-01;	1.10E-07;	8.02E-02;	5.35E-06;	6.90E-07;	9.78E-02;
6500.00;	1.52E-01;	9.25E-08;	6.87E-02;	4.50E-06;	5.91E-07;	8.38E-02;
7500.00;	1.33E-01;	8.05E-08;	6.00E-02;	3.92E-06;	5.16E-07;	7.31E-02;
8500.00;	1.18E-01;	7.10E-08;	5.31E-02;	3.47E-06;	4.56E-07;	6.47E-02;
9500.00;	1.05E-01;	6.33E-08;	4.75E-02;	3.11E-06;	4.08E-07;	5.79E-02;
10500.00;	1.01E-01;	6.78E-08;	4.56E-02;	3.30E-06;	3.92E-07;	5.55E-02;
11500.00;	9.40E-02;	6.89E-08;	4.24E-02;	3.35E-06;	3.64E-07;	5.16E-02;
13000.00;	8.26E-02;	7.36E-08;	3.72E-02;	3.57E-06;	3.20E-07;	4.54E-02;
15000.00;	6.72E-02;	5.06E-08;	3.03E-02;	2.49E-06;	2.60E-07;	3.69E-02;
17000.00;	5.99E-02;	3.51E-08;	2.70E-02;	1.77E-06;	2.32E-07;	3.29E-02;
19000.00;	5.40E-02;	3.15E-08;	2.43E-02;	1.59E-06;	2.09E-07;	2.97E-02;
21000.00;	4.90E-02;	2.84E-08;	2.21E-02;	1.44E-06;	1.90E-07;	2.69E-02;
23000.00;	4.65E-02;	2.57E-08;	2.09E-02;	1.31E-06;	1.80E-07;	2.55E-02;
25000.00;	4.06E-02;	2.33E-08;	1.83E-02;	1.20E-06;	1.57E-07;	2.23E-02;
27000.00;	3.73E-02;	2.13E-08;	1.68E-02;	1.10E-06;	1.44E-07;	2.05E-02;
29000.00;	3.43E-02;	1.95E-08;	1.54E-02;	1.01E-06;	1.33E-07;	1.88E-02;
32500.00;	2.99E-02;	1.61E-08;	1.35E-02;	8.46E-07;	1.16E-07;	1.64E-02;
37500.00;	2.45E-02;	1.31E-08;	1.11E-02;	6.93E-07;	9.51E-08;	1.35E-02;
42500.00;	1.80E-02;	1.59E-08;	8.13E-03;	8.32E-07;	6.99E-08;	9.91E-03;
47500.00;	1.47E-02;	1.20E-08;	6.65E-03;	6.37E-07;	5.71E-08;	8.10E-03;
52500.00;	1.06E-02;	9.17E-09;	4.76E-03;	4.90E-07;	4.09E-08;	5.80E-03;
57500.00;	8.21E-03;	7.07E-09;	3.70E-03;	3.81E-07;	3.18E-08;	4.51E-03;
62500.00;	6.41E-03;	5.47E-09;	2.89E-03;	2.98E-07;	2.48E-08;	3.52E-03;
67500.00;	5.02E-03;	4.25E-09;	2.26E-03;	2.33E-07;	1.95E-08;	2.76E-03;
72500.00;	3.94E-03;	3.31E-09;	1.78E-03;	1.83E-07;	1.53E-08;	2.17E-03;
77500.00;	3.11E-03;	2.59E-09;	1.40E-03;	1.44E-07;	1.20E-08;	1.71E-03;
82500.00;	2.45E-03;	2.03E-09;	1.10E-03;	1.14E-07;	9.49E-09;	1.35E-03;
87500.00;	1.94E-03;	1.59E-09;	8.72E-04;	8.99E-08;	7.50E-09;	1.06E-03;
92500.00;	1.66E-03;	8.51E-10;	7.48E-04;	4.92E-08;	6.43E-09;	9.12E-04;
97500.00;	1.33E-03;	1.08E-09;	5.97E-04;	6.15E-08;	5.13E-09;	7.28E-04;

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BalING51 (smer6,dospeli, jen Cs137, 50ti letá)

výběr ze SPAD.OUT:

EFF DOSP podle cest: Suma pres segm.: SMER= 6

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MODEL, KPS, KRK,	THAV,	TBLONG (rok),	ING,	TSPD,	TING :
2 6 0	7.2000E+03	5.0E+01	T	2.00E+00	5.17E+02

XREAL (K) r.50. (m)	Efektivni (Sv)	mrak (Sv)	depo (Sv)	inhalace (Sv)	inh(resus.)	ingesce : celkova az do
500.00;	1.44E+00;	1.81E-06;	6.46E-01;	2.32E-04;	6.59E-06;	7.91E-01;
1500.00;	5.65E-01;	7.48E-07;	2.54E-01;	4.94E-05;	2.59E-06;	3.11E-01;
2500.00;	3.63E-01;	3.87E-07;	1.63E-01;	2.12E-05;	1.67E-06;	2.00E-01;
3500.00;	2.70E-01;	2.35E-07;	1.21E-01;	1.19E-05;	1.24E-06;	1.49E-01;
4500.00;	2.26E-01;	1.56E-07;	1.02E-01;	7.66E-06;	1.04E-06;	1.25E-01;
5500.00;	1.79E-01;	1.10E-07;	8.02E-02;	5.35E-06;	8.20E-07;	9.83E-02;
6500.00;	1.53E-01;	9.25E-08;	6.87E-02;	4.50E-06;	7.02E-07;	8.41E-02;
7500.00;	1.33E-01;	8.05E-08;	6.00E-02;	3.92E-06;	6.12E-07;	7.34E-02;
8500.00;	1.18E-01;	7.10E-08;	5.31E-02;	3.47E-06;	5.42E-07;	6.50E-02;
9500.00;	1.06E-01;	6.33E-08;	4.75E-02;	3.11E-06;	4.85E-07;	5.82E-02;
10500.00;	1.01E-01;	6.78E-08;	4.56E-02;	3.30E-06;	4.65E-07;	5.58E-02;
11500.00;	9.42E-02;	6.89E-08;	4.24E-02;	3.35E-06;	4.33E-07;	5.19E-02;
13000.00;	8.28E-02;	7.36E-08;	3.72E-02;	3.57E-06;	3.80E-07;	4.56E-02;
15000.00;	6.73E-02;	5.06E-08;	3.03E-02;	2.49E-06;	3.09E-07;	3.71E-02;
17000.00;	6.00E-02;	3.51E-08;	2.70E-02;	1.77E-06;	2.76E-07;	3.30E-02;
19000.00;	5.41E-02;	3.15E-08;	2.43E-02;	1.59E-06;	2.49E-07;	2.98E-02;
21000.00;	4.91E-02;	2.84E-08;	2.21E-02;	1.44E-06;	2.25E-07;	2.70E-02;
23000.00;	4.66E-02;	2.57E-08;	2.09E-02;	1.31E-06;	2.14E-07;	2.56E-02;
25000.00;	4.07E-02;	2.33E-08;	1.83E-02;	1.20E-06;	1.87E-07;	2.24E-02;
27000.00;	3.74E-02;	2.13E-08;	1.68E-02;	1.10E-06;	1.72E-07;	2.06E-02;
29000.00;	3.44E-02;	1.95E-08;	1.54E-02;	1.01E-06;	1.58E-07;	1.89E-02;
32500.00;	3.00E-02;	1.61E-08;	1.35E-02;	8.46E-07;	1.38E-07;	1.65E-02;
37500.00;	2.46E-02;	1.31E-08;	1.11E-02;	6.93E-07;	1.13E-07;	1.35E-02;
42500.00;	1.81E-02;	1.59E-08;	8.13E-03;	8.32E-07;	8.30E-08;	9.95E-03;
47500.00;	1.48E-02;	1.20E-08;	6.65E-03;	6.37E-07;	6.79E-08;	8.14E-03;

52500.00;	1.06E-02;	9.17E-09;	4.76E-03;	4.90E-07;	4.86E-08;	5.83E-03;
57500.00;	8.24E-03;	7.07E-09;	3.70E-03;	3.81E-07;	3.78E-08;	4.53E-03;
62500.00;	6.43E-03;	5.47E-09;	2.89E-03;	2.98E-07;	2.95E-08;	3.54E-03;
67500.00;	5.03E-03;	4.25E-09;	2.26E-03;	2.33E-07;	2.31E-08;	2.77E-03;
72500.00;	3.95E-03;	3.31E-09;	1.78E-03;	1.83E-07;	1.82E-08;	2.18E-03;
77500.00;	3.11E-03;	2.59E-09;	1.40E-03;	1.44E-07;	1.43E-08;	1.71E-03;
82500.00;	2.46E-03;	2.03E-09;	1.10E-03;	1.14E-07;	1.13E-08;	1.35E-03;
87500.00;	1.94E-03;	1.59E-09;	8.72E-04;	8.99E-08;	8.91E-09;	1.07E-03;
92500.00;	1.66E-03;	8.51E-10;	7.48E-04;	4.92E-08;	7.64E-09;	9.16E-04;
97500.00;	1.33E-03;	1.08E-09;	5.97E-04;	6.15E-08;	6.10E-09;	7.31E-04;

Baliky z HARP - staceni (smer6,dospeli, jen Cs137, 50ti letá)

výběr ze IMPLICIT.OUT:

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#DDT:aot=613 Totální úvazky z časné i pozdější fáze          Sv          Čas TRVing= 50.rok;
1.75E+00  7.57E-01  4.71E-01  3.36E-01  2.72E-01  2.06E-01  1.73E-01  1.48E-01  1.30E-01
1.14E-01  9.42E-02  7.88E-02  4.65E-02  5.35E-02  6.18E-02  5.40E-02  4.63E-02  4.51E-02
3.92E-02  3.63E-02  3.36E-02  3.14E-02  2.63E-02  2.08E-02  1.89E-02  1.50E-02  1.30E-02
1.12E-02  9.72E-03  8.38E-03  6.23E-03  4.14E-03  2.41E-03  9.78E-04  2.23E-04

#DDG:aot=614 Vnitřní ozáření z dlouhodobé ingesce          Sv          Čas TRVing= 67.roku
po spadu;
26   2.10E-01  9.09E-02  5.65E-02  4.04E-02  3.27E-02  2.47E-02  2.07E-02  1.78E-02  1.55E-
02  1.37E-02  1.13E-02  9.46E-03  5.59E-03  6.42E-03  7.43E-03  6.47E-03  5.55E-03  5.42E-03
4.71E-03  4.36E-03  4.04E-03  3.77E-03  3.16E-03  2.49E-03  2.27E-03  1.80E-03  1.55E-03
1.35E-03  1.17E-03  1.01E-03  7.48E-04  4.97E-04  2.89E-04  1.17E-04  2.68E-05

#DDD:aot=016 Dlouhodobé externí ozáření z depozice          Sv          Čas TBlong= 18250.den
(50 roku);
26   1.54E+00  6.66E-01  4.14E-01  2.96E-01  2.40E-01  1.81E-01  1.52E-01  1.30E-01  1.14E-
01  1.00E-01  8.29E-02  6.93E-02  4.09E-02  4.71E-02  5.44E-02  4.75E-02  4.07E-02  3.97E-02
3.45E-02  3.19E-02  2.96E-02  2.76E-02  2.31E-02  1.83E-02  1.66E-02  1.32E-02  1.14E-02
9.86E-03  8.55E-03  7.37E-03  5.48E-03  3.64E-03  2.12E-03  8.61E-04  1.96E-04
```

Pozor, zde jsem do Baliky.for (pro HARP) dal pro ingesci natvrdo:

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C
C vek=6 , A1ING pro kazdy vek jiz vypoctena
C T2 -rok spadu+dalsi rok:
C natvrdo:
  RLAMK=7.326E-10
----- místo:
  DO 222 R=1,IPRVKU
C =====MIGR+FIX - (pridej CO60+... ?) =====
C T1/2 pro vsechny nuklidy = 100 roku, LAMB=0.693/T:
  TPUL=100.0*365.0*86400.0
C RLAMK ve 1/sec:
  RLAMK=0.693/TPUL
  JCL=IND(R)
  RADLAM=ALAM(JCL)
  RLAMK=RLAMK+RADLAM
  NUKX=NUK(R)
C CS: pridam pripadnou migraci a fixaci, necham FCMXX:
  IF ((MIGRCS.EQ.1).AND.
  1 ((CHNUK.EQ.'CS').OR.(CHNUK.EQ.'CO').OR.(CHNUK.EQ.'PU')))
  * RLAMK=RLAMK + 0.693/(TCSMIG * 365.0*86400.0*FCMXX(3))
C pro ingesci fixace musi byt nepodminene
  IF (CHNUK.EQ.'CS')
  * RLAMK=RLAMK + 0.693/(TCSFIX * 365.0*86400.0 *FCMXX(3))
C
C SR: pridam pripadnou migraci a fixaci:
  IF ((MIGRSR.EQ.1).AND.
  1 ((CHNUK.EQ.'SR').OR.(CHNUK.EQ.'BA').OR.(CHNUK.EQ.'MO')))
  * RLAMK=RLAMK + 0.693/(TSRMIG * 365.0*86400.0 *FCMXX(3))
C
  IF (CHNUK.EQ.'SR')
  * RLAMK=RLAMK + 0.693/(TSRFIX * 365.0*86400.0 *FCMXX(3))
C
C =====konec MIGR+FIX=====
C Feb2010: T=1
C
C T1 -rok spadu: pro vsechny veky stejne, jen prislusne A1ING
C!!!!!!
=====
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## když dám natvrdo, pak vyjde:

#DDT:aot=613 Totální úvazky z časné i pozdější fáze Sv Čas TRVing= 50.rok;  
26 2.31E+00 9.98E-01 6.20E-01 4.44E-01 3.59E-01 2.71E-01 2.28E-01 1.95E-01 1.71E-  
01 1.50E-01 1.24E-01 1.04E-01 6.13E-02 7.05E-02 8.15E-02 7.11E-02 6.10E-02 5.95E-02  
5.17E-02 4.78E-02 4.43E-02 4.13E-02 3.46E-02 2.74E-02 2.49E-02 1.98E-02 1.71E-02  
1.48E-02 1.28E-02 1.10E-02 8.21E-03 5.45E-03 3.18E-03 1.29E-03 2.94E-04

#DDG:aot=614 Vnitřní ozáření z dlouhodobé ingesce Sv Čas TRVing= 67.roku  
po spadu;  
7.66E-01 3.32E-01 2.06E-01 1.48E-01 1.19E-01 9.03E-02 7.55E-02 6.49E-02 5.65E-02  
4.99E-02 4.13E-02 3.45E-02 2.04E-02 2.34E-02 2.71E-02 2.36E-02 2.03E-02 1.98E-02  
1.72E-02 1.59E-02 1.47E-02 1.37E-02 1.15E-02 9.10E-03 8.28E-03 6.58E-03 5.67E-03  
4.91E-03 4.26E-03 3.67E-03 2.73E-03 1.81E-03 1.06E-03 4.28E-04 9.76E-05

#DDD:aot=016 Dlouhodobé externí ozáření z depozice Sv Čas TBlong=  
18250.den;  
1.54E+00 6.66E-01 4.14E-01 2.96E-01 2.40E-01 1.81E-01 1.52E-01 1.30E-01 1.14E-01  
1.00E-01 8.29E-02 6.93E-02 4.09E-02 4.71E-02 5.44E-02 4.75E-02 4.07E-02 3.97E-02  
3.45E-02 3.19E-02 2.96E-02 2.76E-02 2.31E-02 1.83E-02 1.66E-02 1.32E-02 1.14E-02  
9.86E-03 8.55E-03 7.37E-03 5.48E-03 3.64E-03 2.12E-03 8.61E-04 1.96E-04

**TYTO VYSLEDKY HEZKY KORESPONDUJI s PRIMOALL, kde je stejne ALAMI  
neboli RLAMK.**

===== konec natvrdo =====

## B) dále: 1 segment, všechny nuklidy:

SR90 5.00E+12  
RU103 3.00E+12  
TE131M 2.00E+13  
I1310 5.00E+13  
I131 9.00E+14  
I131A 5.00E+13  
XE133 7.70E+17  
CS137 3.00E+13  
BA140 1.00E+14  
LA140 5.00E+12  
CE141 4.00E+12  
KONEC

### z PRIMOALL:

Effektivní dávka podle cest: Dospeli  
Suma pres segmenty: !!!! musi byt v jedinem smeru= 6  
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MODEL, KPS, KRK, THAVhod, TBLONGden, ING, TSPD, TING :  
2 6 0 2.0000E+00 1.8250E+04 T 1.82E+02 5.17E+02

XREAL(K) (m)	Efektivni (Sv)	mrak (Sv)	ddepo (Sv)	inhalace (Sv)	inh(resus.) (Sv)	ingesce : celkova az do r.50. (Sv)
500.00;	2.86E+00;	3.40E-03;	7.10E-01;	3.28E-02;	4.52E-05;	2.12E+00;
1500.00;	1.01E+00;	1.19E-03;	2.74E-01;	6.71E-03;	1.45E-05;	7.33E-01;
2500.00;	6.25E-01;	6.06E-04;	1.74E-01;	2.83E-03;	8.51E-06;	4.47E-01;
3500.00;	4.55E-01;	3.71E-04;	1.29E-01;	1.58E-03;	6.04E-06;	3.24E-01;
4500.00;	4.15E-01;	2.51E-04;	1.10E-01;	1.00E-03;	6.12E-06;	3.04E-01;
5500.00;	2.93E-01;	1.81E-04;	8.50E-02;	6.89E-04;	3.76E-06;	2.07E-01;
6500.00;	2.50E-01;	1.55E-04;	7.28E-02;	5.77E-04;	3.20E-06;	1.77E-01;
7500.00;	2.18E-01;	1.39E-04;	6.35E-02;	5.03E-04;	2.79E-06;	1.54E-01;
8500.00;	1.93E-01;	1.25E-04;	5.62E-02;	4.44E-04;	2.46E-06;	1.36E-01;
9500.00;	1.72E-01;	1.14E-04;	5.03E-02;	3.97E-04;	2.20E-06;	1.22E-01;
10500.00;	1.82E-01;	1.26E-04;	4.91E-02;	4.18E-04;	2.64E-06;	1.33E-01;
11500.00;	1.70E-01;	1.32E-04;	4.57E-02;	4.17E-04;	2.48E-06;	1.24E-01;
13000.00;	1.53E-01;	1.53E-04;	4.04E-02;	4.39E-04;	2.28E-06;	1.12E-01;

15000.00;	1.09E-01;	1.12E-04;	3.20E-02;	3.03E-04;	1.38E-06;	7.68E-02;
17000.00;	9.63E-02;	8.16E-05;	2.85E-02;	2.15E-04;	1.20E-06;	6.76E-02;
19000.00;	8.67E-02;	7.66E-05;	2.57E-02;	1.93E-04;	1.08E-06;	6.08E-02;
21000.00;	7.85E-02;	7.24E-05;	2.33E-02;	1.75E-04;	9.72E-07;	5.50E-02;
23000.00;	8.00E-02;	6.88E-05;	2.24E-02;	1.56E-04;	1.09E-06;	5.74E-02;
25000.00;	6.44E-02;	6.55E-05;	1.93E-02;	1.40E-04;	7.85E-07;	4.50E-02;
27000.00;	5.90E-02;	6.27E-05;	1.77E-02;	1.28E-04;	7.17E-07;	4.12E-02;
29000.00;	5.42E-02;	6.01E-05;	1.62E-02;	1.18E-04;	6.57E-07;	3.78E-02;
32500.00;	5.06E-02;	5.62E-05;	1.44E-02;	9.72E-05;	6.74E-07;	3.60E-02;
37500.00;	4.06E-02;	5.17E-05;	1.17E-02;	7.55E-05;	5.24E-07;	2.87E-02;
42500.00;	2.81E-02;	7.71E-05;	8.52E-03;	9.00E-05;	3.29E-07;	1.94E-02;
47500.00;	2.50E-02;	7.20E-05;	7.08E-03;	6.91E-05;	3.31E-07;	1.77E-02;
52500.00;	1.60E-02;	6.76E-05;	4.96E-03;	5.40E-05;	1.79E-07;	1.09E-02;
57500.00;	1.25E-02;	6.39E-05;	3.86E-03;	4.45E-05;	1.39E-07;	8.50E-03;
62500.00;	9.75E-03;	6.06E-05;	3.01E-03;	3.70E-05;	1.09E-07;	6.64E-03;
67500.00;	7.65E-03;	5.77E-05;	2.36E-03;	3.13E-05;	8.53E-08;	5.20E-03;
72500.00;	6.03E-03;	5.51E-05;	1.85E-03;	2.67E-05;	6.70E-08;	4.09E-03;
77500.00;	4.76E-03;	5.28E-05;	1.46E-03;	2.31E-05;	5.28E-08;	3.22E-03;
82500.00;	3.77E-03;	5.07E-05;	1.15E-03;	2.02E-05;	4.17E-08;	2.54E-03;
87500.00;	2.99E-03;	4.88E-05;	9.10E-04;	1.79E-05;	3.30E-08;	2.01E-03;
92500.00;	2.52E-03;	2.93E-05;	7.79E-04;	1.05E-05;	2.74E-08;	1.70E-03;
97500.00;	2.06E-03;	4.55E-05;	6.23E-04;	1.49E-05;	2.26E-08;	1.38E-03;

## z BalING51:

EFF DOSP podle cest: Suma pres segm.: SMER= 6

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MODEL, KPS, KRK,	THAV,	TBLONG (rok),	ING,	TSPD,	TING :
2 6 0	7.2000E+03	5.0E+01	T	2.00E+00	5.17E+02

XREAL (K)	Efektivni	mrak	depo	inhalance	inh(resus.)	ingesce : celkova az do
r.50.						

(m)	(Sv)	(Sv)	(Sv)	(Sv)		
-----	------	------	------	------	--	--

500.00;	2.87E+00;	3.40E-03;	7.10E-01;	3.28E-02;	4.43E-04;	2.12E+00;
1500.00;	1.02E+00;	1.19E-03;	2.74E-01;	6.71E-03;	1.32E-04;	7.35E-01;
2500.00;	6.26E-01;	6.06E-04;	1.74E-01;	2.83E-03;	7.48E-05;	4.48E-01;
3500.00;	4.56E-01;	3.71E-04;	1.29E-01;	1.58E-03;	5.20E-05;	3.24E-01;
4500.00;	4.16E-01;	2.51E-04;	1.10E-01;	1.00E-03;	5.71E-05;	3.04E-01;
5500.00;	2.93E-01;	1.81E-04;	8.50E-02;	6.89E-04;	3.13E-05;	2.07E-01;
6500.00;	2.51E-01;	1.55E-04;	7.28E-02;	5.77E-04;	2.67E-05;	1.77E-01;
7500.00;	2.19E-01;	1.39E-04;	6.35E-02;	5.03E-04;	2.32E-05;	1.54E-01;
8500.00;	1.93E-01;	1.25E-04;	5.62E-02;	4.44E-04;	2.05E-05;	1.37E-01;
9500.00;	1.73E-01;	1.14E-04;	5.03E-02;	3.97E-04;	1.82E-05;	1.22E-01;
10500.00;	1.83E-01;	1.26E-04;	4.91E-02;	4.18E-04;	2.42E-05;	1.33E-01;
11500.00;	1.71E-01;	1.32E-04;	4.57E-02;	4.17E-04;	2.29E-05;	1.24E-01;
13000.00;	1.53E-01;	1.53E-04;	4.04E-02;	4.39E-04;	2.14E-05;	1.12E-01;
15000.00;	1.09E-01;	1.12E-04;	3.20E-02;	3.03E-04;	1.13E-05;	7.70E-02;
17000.00;	9.65E-02;	8.16E-05;	2.85E-02;	2.15E-04;	9.70E-06;	6.77E-02;
19000.00;	8.69E-02;	7.66E-05;	2.57E-02;	1.93E-04;	8.69E-06;	6.09E-02;
21000.00;	7.87E-02;	7.24E-05;	2.33E-02;	1.75E-04;	7.83E-06;	5.51E-02;
23000.00;	8.02E-02;	6.88E-05;	2.24E-02;	1.56E-04;	9.62E-06;	5.75E-02;
25000.00;	6.46E-02;	6.55E-05;	1.93E-02;	1.40E-04;	6.22E-06;	4.51E-02;
27000.00;	5.91E-02;	6.27E-05;	1.77E-02;	1.28E-04;	5.67E-06;	4.13E-02;
29000.00;	5.43E-02;	6.01E-05;	1.62E-02;	1.18E-04;	5.18E-06;	3.79E-02;
32500.00;	5.07E-02;	5.62E-05;	1.44E-02;	9.72E-05;	5.80E-06;	3.61E-02;
37500.00;	4.06E-02;	5.17E-05;	1.17E-02;	7.55E-05;	4.40E-06;	2.88E-02;
42500.00;	2.81E-02;	7.71E-05;	8.52E-03;	9.00E-05;	2.52E-06;	1.94E-02;
47500.00;	2.50E-02;	7.20E-05;	7.08E-03;	6.91E-05;	2.85E-06;	1.78E-02;
52500.00;	1.60E-02;	6.76E-05;	4.96E-03;	5.40E-05;	1.30E-06;	1.10E-02;
57500.00;	1.25E-02;	6.39E-05;	3.86E-03;	4.45E-05;	1.01E-06;	8.53E-03;
62500.00;	9.77E-03;	6.06E-05;	3.01E-03;	3.70E-05;	7.89E-07;	6.66E-03;
67500.00;	7.67E-03;	5.77E-05;	2.36E-03;	3.13E-05;	6.19E-07;	5.22E-03;
72500.00;	6.04E-03;	5.51E-05;	1.85E-03;	2.67E-05;	4.87E-07;	4.10E-03;
77500.00;	4.77E-03;	5.28E-05;	1.46E-03;	2.31E-05;	3.84E-07;	3.23E-03;
82500.00;	3.77E-03;	5.07E-05;	1.15E-03;	2.02E-05;	3.04E-07;	2.55E-03;
87500.00;	3.00E-03;	4.88E-05;	9.10E-04;	1.79E-05;	2.41E-07;	2.02E-03;
92500.00;	2.52E-03;	2.93E-05;	7.79E-04;	1.05E-05;	1.94E-07;	1.70E-03;
97500.00;	2.07E-03;	4.55E-05;	6.23E-04;	1.49E-05;	1.64E-07;	1.38E-03;

# HARP (projekt Baliky)

#DDT:aot=613 Totální úvazky z časné i pozdější fáze Sv Čas TRVing= 50.rok;  
 26 2.87E+00 1.12E+00 6.73E-01 4.74E-01 4.15E-01 2.84E-01 2.37E-01 2.03E-01 1.77E-01  
 1.57E-01 1.44E-01 1.20E-01 7.14E-02 7.33E-02 8.47E-02 7.39E-02 6.34E-02 6.80E-02  
 5.33E-02 4.92E-02 4.56E-02 4.63E-02 3.81E-02 2.72E-02 2.68E-02 1.93E-02 1.66E-02  
 1.43E-02 1.24E-02 1.07E-02 7.97E-03 5.28E-03 3.08E-03 1.25E-03 2.84E-04

#DDG:aot=614 Vnitřní ozáření z dlouhodobé ingesce Sv Čas TRVing= 67.roku  
 po spadu  
 1.23E+00 4.26E-01 2.44E-01 1.68E-01 1.66E-01 9.69E-02 8.08E-02 6.94E-02 6.05E-02  
 5.31E-02 5.75E-02 4.74E-02 2.86E-02 2.47E-02 2.86E-02 2.50E-02 2.14E-02 2.67E-02  
 1.77E-02 1.63E-02 1.51E-02 1.77E-02 1.41E-02 8.46E-03 9.52E-03 5.68E-03 4.88E-03  
 4.22E-03 3.65E-03 3.13E-03 2.32E-03 1.53E-03 8.90E-04 3.59E-04 8.21E-05

#DDD:aot=016 Dlouhodobé externí ozáření z depozice Sv Čas TBlong= 18250.den  
 26 1.60E+00 6.87E-01 4.25E-01 3.04E-01 2.48E-01 1.86E-01 1.55E-01 1.33E-01 1.16E-01  
 1.03E-01 8.57E-02 7.16E-02 4.23E-02 4.82E-02 5.57E-02 4.86E-02 4.17E-02 4.10E-02 3.53E-02  
 3.27E-02 3.03E-02 2.84E-02 2.38E-02 1.86E-02 1.71E-02 1.35E-02 1.16E-02 1.00E-02  
 8.70E-03 7.50E-03 5.58E-03 3.70E-03 2.16E-03 8.75E-04 1.99E-04

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ještě se nelíbí BalING51 a PRIMOALL – propoččet pro 1. rok:

pro PRIMOALL:

Effektivní dávka podle cest: Dospeli

Suma pres segmenty: !!!! musi byt v jedinem smeru= 6

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MODEL,KPS,KRK, THAVhod, TBLONGden ING, TSPD, TING :  
 2 6 0 2.0000E+00 3.6500E+02 T 1.82E+02 5.17E+02

XREAL (K)	Efektivni	mrak	ddepo	inhalace	inh(resus.)	ingesce : celkova az do r.
1.	(m)	(Sv)	(Sv)	(Sv)	(Sv)	(Sv)
500.00;	1.31E+00;	3.40E-03;	1.20E-01;	3.28E-02;	3.91E-05;	1.15E+00;
1500.00;	4.03E-01;	1.19E-03;	4.14E-02;	6.71E-03;	1.21E-05;	3.54E-01;
2500.00;	2.32E-01;	6.06E-04;	2.52E-02;	2.83E-03;	6.97E-06;	2.03E-01;
3500.00;	1.63E-01;	3.71E-04;	1.82E-02;	1.58E-03;	4.90E-06;	1.42E-01;
4500.00;	1.70E-01;	2.51E-04;	1.71E-02;	1.00E-03;	5.16E-06;	1.52E-01;
5500.00;	9.95E-02;	1.81E-04;	1.16E-02;	6.89E-04;	3.00E-06;	8.70E-02;
6500.00;	8.47E-02;	1.55E-04;	9.94E-03;	5.77E-04;	2.55E-06;	7.41E-02;
7500.00;	7.38E-02;	1.39E-04;	8.66E-03;	5.03E-04;	2.22E-06;	6.45E-02;
8500.00;	6.51E-02;	1.25E-04;	7.66E-03;	4.44E-04;	1.96E-06;	5.69E-02;
9500.00;	5.81E-02;	1.14E-04;	6.84E-03;	3.97E-04;	1.75E-06;	5.08E-02;
10500.00;	7.27E-02;	1.26E-04;	7.49E-03;	4.18E-04;	2.20E-06;	6.46E-02;
11500.00;	6.85E-02;	1.32E-04;	7.01E-03;	4.17E-04;	2.08E-06;	6.09E-02;
13000.00;	6.36E-02;	1.53E-04;	6.34E-03;	4.39E-04;	1.93E-06;	5.67E-02;
15000.00;	3.63E-02;	1.12E-04;	4.32E-03;	3.03E-04;	1.09E-06;	3.16E-02;
17000.00;	3.13E-02;	8.16E-05;	3.80E-03;	2.15E-04;	9.43E-07;	2.73E-02;
19000.00;	2.81E-02;	7.66E-05;	3.41E-03;	1.93E-04;	8.46E-07;	2.44E-02;
21000.00;	2.54E-02;	7.24E-05;	3.09E-03;	1.75E-04;	7.63E-07;	2.20E-02;
23000.00;	2.96E-02;	6.88E-05;	3.23E-03;	1.56E-04;	8.96E-07;	2.61E-02;
25000.00;	2.04E-02;	6.55E-05;	2.52E-03;	1.40E-04;	6.12E-07;	1.76E-02;
27000.00;	1.86E-02;	6.27E-05;	2.31E-03;	1.28E-04;	5.58E-07;	1.61E-02;
29000.00;	1.70E-02;	6.01E-05;	2.12E-03;	1.18E-04;	5.11E-07;	1.47E-02;
32500.00;	1.81E-02;	5.62E-05;	2.03E-03;	9.72E-05;	5.46E-07;	1.59E-02;
37500.00;	1.39E-02;	5.17E-05;	1.61E-03;	7.55E-05;	4.20E-07;	1.22E-02;
42500.00;	8.50E-03;	7.71E-05;	1.09E-03;	9.00E-05;	2.52E-07;	7.25E-03;
47500.00;	8.95E-03;	7.20E-05;	9.98E-04;	6.91E-05;	2.68E-07;	7.81E-03;
52500.00;	4.55E-03;	6.76E-05;	6.12E-04;	5.40E-05;	1.34E-07;	3.82E-03;
57500.00;	3.56E-03;	6.39E-05;	4.76E-04;	4.45E-05;	1.04E-07;	2.98E-03;
62500.00;	2.80E-03;	6.06E-05;	3.72E-04;	3.70E-05;	8.14E-08;	2.33E-03;
67500.00;	2.20E-03;	5.77E-05;	2.91E-04;	3.13E-05;	6.39E-08;	1.82E-03;
72500.00;	1.75E-03;	5.51E-05;	2.29E-04;	2.67E-05;	5.02E-08;	1.44E-03;
77500.00;	1.39E-03;	5.28E-05;	1.80E-04;	2.31E-05;	3.96E-08;	1.13E-03;
82500.00;	1.11E-03;	5.07E-05;	1.42E-04;	2.02E-05;	3.13E-08;	8.96E-04;

87500.00; 8.90E-04; 4.88E-05; 1.13E-04; 1.79E-05; 2.48E-08; 7.10E-04;  
 92500.00; 7.15E-04; 2.93E-05; 9.49E-05; 1.05E-05; 2.03E-08; 5.80E-04;  
 97500.00; 6.23E-04; 4.55E-05; 7.71E-05; 1.49E-05; 1.69E-08; 4.86E-04;

pro BalING51:

EFF DOSP podle cest: Suma pres segm.: SMER= 6  
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MODEL,KPS,KRK, THAV, TBLONG(rok), ING, TSPD, TING :  
 2 6 0 7.2000E+03 1.0E+00 T 1.82E+02 5.17E+02

XREAL(K)	Efektivni	mrak	depo	inhalance	inh(resus.)	ingesce : celkova az do r.
1.	(m)	(Sv)	(Sv)	(Sv)	(Sv)	
500.00;	1.31E+00;	3.40E-03;	1.20E-01;	3.28E-02;	4.37E-04;	1.15E+00;
1500.00;	4.03E-01;	1.19E-03;	4.14E-02;	6.71E-03;	1.30E-04;	3.54E-01;
2500.00;	2.32E-01;	6.06E-04;	2.52E-02;	2.83E-03;	7.33E-05;	2.03E-01;
3500.00;	1.63E-01;	3.71E-04;	1.82E-02;	1.58E-03;	5.09E-05;	1.42E-01;
4500.00;	1.70E-01;	2.51E-04;	1.71E-02;	1.00E-03;	5.62E-05;	1.52E-01;
5500.00;	9.95E-02;	1.81E-04;	1.16E-02;	6.89E-04;	3.06E-05;	8.70E-02;
6500.00;	8.48E-02;	1.55E-04;	9.94E-03;	5.77E-04;	2.60E-05;	7.41E-02;
7500.00;	7.38E-02;	1.39E-04;	8.66E-03;	5.03E-04;	2.26E-05;	6.45E-02;
8500.00;	6.51E-02;	1.25E-04;	7.66E-03;	4.44E-04;	2.00E-05;	5.69E-02;
9500.00;	5.81E-02;	1.14E-04;	6.84E-03;	3.97E-04;	1.78E-05;	5.08E-02;
10500.00;	7.27E-02;	1.26E-04;	7.49E-03;	4.18E-04;	2.38E-05;	6.46E-02;
11500.00;	6.85E-02;	1.32E-04;	7.01E-03;	4.17E-04;	2.25E-05;	6.09E-02;
13000.00;	6.36E-02;	1.53E-04;	6.34E-03;	4.39E-04;	2.10E-05;	5.67E-02;
15000.00;	3.63E-02;	1.12E-04;	4.32E-03;	3.03E-04;	1.10E-05;	3.16E-02;
17000.00;	3.14E-02;	8.16E-05;	3.80E-03;	2.15E-04;	9.45E-06;	2.73E-02;
19000.00;	2.81E-02;	7.66E-05;	3.41E-03;	1.93E-04;	8.46E-06;	2.44E-02;
21000.00;	2.54E-02;	7.24E-05;	3.09E-03;	1.75E-04;	7.62E-06;	2.20E-02;
23000.00;	2.96E-02;	6.88E-05;	3.23E-03;	1.56E-04;	9.43E-06;	2.61E-02;
25000.00;	2.04E-02;	6.55E-05;	2.52E-03;	1.40E-04;	6.05E-06;	1.76E-02;
27000.00;	1.86E-02;	6.27E-05;	2.31E-03;	1.28E-04;	5.51E-06;	1.61E-02;
29000.00;	1.70E-02;	6.01E-05;	2.12E-03;	1.18E-04;	5.04E-06;	1.47E-02;
32500.00;	1.81E-02;	5.62E-05;	2.03E-03;	9.72E-05;	5.68E-06;	1.59E-02;
37500.00;	1.39E-02;	5.17E-05;	1.61E-03;	7.55E-05;	4.30E-06;	1.22E-02;
42500.00;	8.51E-03;	7.71E-05;	1.09E-03;	9.00E-05;	2.44E-06;	7.25E-03;
47500.00;	8.95E-03;	7.20E-05;	9.98E-04;	6.91E-05;	2.79E-06;	7.81E-03;
52500.00;	4.56E-03;	6.76E-05;	6.12E-04;	5.40E-05;	1.25E-06;	3.82E-03;
57500.00;	3.56E-03;	6.39E-05;	4.76E-04;	4.45E-05;	9.74E-07;	2.98E-03;
62500.00;	2.80E-03;	6.06E-05;	3.72E-04;	3.70E-05;	7.62E-07;	2.33E-03;
67500.00;	2.21E-03;	5.77E-05;	2.91E-04;	3.13E-05;	5.98E-07;	1.82E-03;
72500.00;	1.75E-03;	5.51E-05;	2.29E-04;	2.67E-05;	4.70E-07;	1.44E-03;
77500.00;	1.39E-03;	5.28E-05;	1.80E-04;	2.31E-05;	3.71E-07;	1.13E-03;
82500.00;	1.11E-03;	5.07E-05;	1.42E-04;	2.02E-05;	2.94E-07;	8.96E-04;
87500.00;	8.90E-04;	4.88E-05;	1.13E-04;	1.79E-05;	2.33E-07;	7.10E-04;
92500.00;	7.15E-04;	2.93E-05;	9.49E-05;	1.05E-05;	1.87E-07;	5.80E-04;
97500.00;	6.23E-04;	4.55E-05;	7.71E-05;	1.49E-05;	1.59E-07;	4.86E-04;

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C) dále: 3 segmenty, všechny nuklidy:

3SEGM PARANO\_PRIMO\_CEZ\_NJZrev2,3seg\*1/3  
 May24\_2010,3seg,6smer,DCF,,prsi2MMprod  
 2  
 6  
 35 35  
 0 0 3  
 0 0  
 D 0  
 45.0 8  
 86400. 180.0 180.0  
 1.0  
 2.0000  
 6 6 6  
 5.0000 4.0000 1.0000  
 D C F  
 2.0000 2.0000 2.0000

0.0	0.0	0.0																	
0.0	0.0	0.0																	
45.0	45.0	45.0																	

45.  
507.  
200.0

F  
T 1

0.0																			
1.6																			
0.0																			

1.0 2.0 2.0 2.0 2.0 1.0

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.	0.	0.	0.	0.	0.

6  
0  
1

0.00070	0.00150	0.00200	0.00750	0.00050															
0.00080	0.00250	0.00300	0.00850	0.00080															
0.00100	0.01500	0.02000	0.07300	0.00500															
0.00050	0.00015	0.00020	0.00075	0.00050															

SEGMENT 1 : srazky a uniky: prsi jen 1., source=3\*1/3

2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00

SR90 1.80E+12  
RU103 1.00E+12  
TE131M 7.00E+12  
I131O 1.80E+13  
I131 3.00E+14  
I131A 1.80E+13  
XE133 2.60E+17  
CS137 1.00E+13  
BA140 3.30E+13  
LA140 1.80E+12  
CE141 1.33E+12  
KONEC

SEGMENT 2 : srazky a uniky:

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SR90 1.80E+12  
RU103 1.00E+12  
TE131M 7.00E+12  
I131O 1.80E+13  
I131 3.00E+14  
I131A 1.80E+13  
XE133 2.60E+17  
CS137 1.00E+13  
BA140 3.30E+13  
LA140 1.80E+12  
CE141 1.33E+12  
KONEC

SEGMENT 3 : srazky a uniky:

0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SR90 1.80E+12  
RU103 1.00E+12  
TE131M 7.00E+12  
I131O 1.80E+13  
I131 3.00E+14  
I131A 1.80E+13  
XE133 2.60E+17  
CS137 1.00E+13  
BA140 3.30E+13  
LA140 1.80E+12  
CE141 1.33E+12  
KONEC

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**PRIMOALL :**

**Roční :**

Effektivní dávka podle cest: Dospeli  
Suma pres segmenty: !!!! musi byt v jedinem smeru= 6  
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MODEL, KPS, KRK, THAVhod, TBLONGden, ING, TSPD, TING :  
 2 6 0 2.0000E+00 3.6500E+02 T 1.82E+02 5.17E+02

XREAL(K) (m)	Efektivni (SV)	mrak (Sv)	ddepo (Sv)	inhalace (Sv)	inh(resus.) (Sv)	ingesce : celkova az do r. 1. (Sv)
500.00;	6.67E-01;	8.63E-03;	5.31E-02;	2.30E-02;	1.96E-05;	5.82E-01;
1500.00;	4.28E-01;	3.08E-03;	3.10E-02;	1.80E-02;	1.26E-05;	3.76E-01;
2500.00;	2.48E-01;	1.99E-03;	1.88E-02;	1.02E-02;	7.27E-06;	2.17E-01;
3500.00;	1.61E-01;	1.64E-03;	1.27E-02;	6.39E-03;	4.71E-06;	1.40E-01;
4500.00;	2.46E-01;	1.35E-03;	1.93E-02;	3.46E-03;	7.44E-06;	2.22E-01;
5500.00;	6.41E-02;	1.14E-03;	6.13E-03;	2.05E-03;	1.87E-06;	5.48E-02;
6500.00;	5.08E-02;	9.80E-04;	5.00E-03;	1.54E-03;	1.48E-06;	4.33E-02;
7500.00;	4.17E-02;	8.54E-04;	4.20E-03;	1.20E-03;	1.21E-06;	3.54E-02;
8500.00;	3.51E-02;	7.52E-04;	3.61E-03;	9.65E-04;	1.02E-06;	2.97E-02;
9500.00;	3.01E-02;	6.68E-04;	3.15E-03;	7.96E-04;	8.77E-07;	2.55E-02;
10500.00;	5.66E-02;	7.73E-04;	5.63E-03;	7.72E-04;	1.69E-06;	4.94E-02;
11500.00;	4.84E-02;	7.99E-04;	5.06E-03;	6.73E-04;	1.44E-06;	4.19E-02;
13000.00;	4.39E-02;	9.07E-04;	4.74E-03;	6.53E-04;	1.29E-06;	3.76E-02;
15000.00;	1.66E-02;	5.92E-04;	1.88E-03;	4.17E-04;	4.75E-07;	1.37E-02;
17000.00;	1.34E-02;	3.77E-04;	1.55E-03;	2.81E-04;	3.90E-07;	1.12E-02;
19000.00;	1.20E-02;	3.42E-04;	1.40E-03;	2.52E-04;	3.50E-07;	1.01E-02;
21000.00;	1.09E-02;	3.25E-04;	1.27E-03;	2.33E-04;	3.16E-07;	9.10E-03;
23000.00;	1.68E-02;	3.09E-04;	1.88E-03;	2.11E-04;	4.96E-07;	1.44E-02;
25000.00;	8.82E-03;	2.96E-04;	1.04E-03;	1.94E-04;	2.54E-07;	7.29E-03;
27000.00;	8.11E-03;	2.84E-04;	9.57E-04;	1.82E-04;	2.33E-07;	6.69E-03;
29000.00;	7.49E-03;	2.73E-04;	8.84E-04;	1.72E-04;	2.15E-07;	6.16E-03;
32500.00;	1.10E-02;	2.56E-04;	1.25E-03;	1.52E-04;	3.22E-07;	9.30E-03;
37500.00;	8.73E-03;	2.36E-04;	1.01E-03;	1.28E-04;	2.55E-07;	7.36E-03;
42500.00;	4.73E-03;	3.89E-04;	5.42E-04;	1.79E-04;	1.27E-07;	3.62E-03;
47500.00;	7.85E-03;	3.63E-04;	9.04E-04;	1.56E-04;	2.23E-07;	6.42E-03;
52500.00;	2.75E-03;	3.40E-04;	3.04E-04;	1.39E-04;	6.90E-08;	1.97E-03;
57500.00;	2.34E-03;	3.21E-04;	2.52E-04;	1.28E-04;	5.73E-08;	1.63E-03;
62500.00;	2.01E-03;	3.03E-04;	2.11E-04;	1.19E-04;	4.82E-08;	1.37E-03;
67500.00;	1.75E-03;	2.88E-04;	1.78E-04;	1.11E-04;	4.09E-08;	1.17E-03;
72500.00;	1.53E-03;	2.74E-04;	1.52E-04;	1.04E-04;	3.51E-08;	1.00E-03;
77500.00;	1.36E-03;	2.61E-04;	1.31E-04;	9.77E-05;	3.05E-08;	8.72E-04;
82500.00;	1.22E-03;	2.50E-04;	1.14E-04;	9.24E-05;	2.67E-08;	7.65E-04;
87500.00;	1.10E-03;	2.39E-04;	1.01E-04;	8.75E-05;	2.36E-08;	6.77E-04;
92500.00;	7.15E-04;	1.30E-04;	6.83E-05;	5.09E-05;	1.62E-08;	4.66E-04;
97500.00;	9.41E-04;	2.22E-04;	8.22E-05;	7.96E-05;	1.94E-08;	5.58E-04;

## 50ti letá:

Effektivní dávka podle cest: Dospeli

Suma pres segmenty: !!!! musi byt v jedinem smeru= 6

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MODEL, KPS, KRK, THAVhod, TBLONGden, ING, TSPD, TING :  
 2 6 0 2.0000E+00 1.8250E+04 T 1.82E+02 5.17E+02

XREAL(K) (m)	Efektivni (SV)	mrak (Sv)	ddepo (Sv)	inhalace (Sv)	inh(resus.) (Sv)	ingesce : celkova az do r.50. (Sv)
500.00;	1.24E+00;	8.63E-03;	2.69E-01;	2.30E-02;	2.19E-05;	9.43E-01;
1500.00;	7.03E-01;	3.08E-03;	1.34E-01;	1.80E-02;	1.37E-05;	5.48E-01;
2500.00;	4.34E-01;	1.99E-03;	8.84E-02;	1.02E-02;	8.02E-06;	3.33E-01;
3500.00;	2.99E-01;	1.64E-03;	6.45E-02;	6.39E-03;	5.26E-06;	2.26E-01;
4500.00;	4.38E-01;	1.35E-03;	9.14E-02;	3.46E-03;	8.22E-06;	3.42E-01;
5500.00;	1.52E-01;	1.14E-03;	3.90E-02;	2.05E-03;	2.22E-06;	1.10E-01;
6500.00;	1.25E-01;	9.80E-04;	3.28E-02;	1.54E-03;	1.78E-06;	8.97E-02;
7500.00;	1.06E-01;	8.54E-04;	2.82E-02;	1.20E-03;	1.47E-06;	7.55E-02;
8500.00;	9.12E-02;	7.52E-04;	2.46E-02;	9.65E-04;	1.25E-06;	6.48E-02;
9500.00;	7.99E-02;	6.68E-04;	2.18E-02;	7.96E-04;	1.08E-06;	5.66E-02;
10500.00;	1.39E-01;	7.73E-04;	3.64E-02;	7.72E-04;	2.02E-06;	1.01E-01;
11500.00;	1.27E-01;	7.99E-04;	3.43E-02;	6.73E-04;	1.75E-06;	9.08E-02;
13000.00;	1.20E-01;	9.07E-04;	3.33E-02;	6.53E-04;	1.60E-06;	8.53E-02;
15000.00;	4.89E-02;	5.92E-04;	1.40E-02;	4.17E-04;	6.05E-07;	3.39E-02;
17000.00;	4.03E-02;	3.77E-04;	1.16E-02;	2.81E-04;	4.99E-07;	2.80E-02;
19000.00;	3.62E-02;	3.42E-04;	1.04E-02;	2.52E-04;	4.47E-07;	2.52E-02;
21000.00;	3.30E-02;	3.25E-04;	9.52E-03;	2.33E-04;	4.05E-07;	2.29E-02;
23000.00;	4.78E-02;	3.09E-04;	1.35E-02;	2.11E-04;	6.21E-07;	3.38E-02;
25000.00;	2.72E-02;	2.96E-04;	7.90E-03;	1.94E-04;	3.28E-07;	1.88E-02;
27000.00;	2.50E-02;	2.84E-04;	7.29E-03;	1.82E-04;	3.02E-07;	1.73E-02;
29000.00;	2.31E-02;	2.73E-04;	6.74E-03;	1.72E-04;	2.78E-07;	1.60E-02;
32500.00;	3.21E-02;	2.56E-04;	9.19E-03;	1.52E-04;	4.08E-07;	2.26E-02;
37500.00;	2.60E-02;	2.36E-04;	7.48E-03;	1.28E-04;	3.25E-07;	1.82E-02;
42500.00;	1.46E-02;	3.89E-04;	4.23E-03;	1.79E-04;	1.66E-07;	9.78E-03;
47500.00;	2.36E-02;	3.63E-04;	6.79E-03;	1.56E-04;	2.87E-07;	1.63E-02;

52500.00; 8.40E-03; 3.40E-04; 2.42E-03; 1.39E-04; 9.19E-08; 5.50E-03;  
 57500.00; 6.99E-03; 3.21E-04; 2.00E-03; 1.28E-04; 7.62E-08; 4.55E-03;  
 62500.00; 5.89E-03; 3.03E-04; 1.66E-03; 1.19E-04; 6.39E-08; 3.80E-03;  
 67500.00; 5.01E-03; 2.88E-04; 1.40E-03; 1.11E-04; 5.41E-08; 3.21E-03;  
 72500.00; 4.31E-03; 2.74E-04; 1.19E-03; 1.04E-04; 4.64E-08; 2.74E-03;  
 77500.00; 3.75E-03; 2.61E-04; 1.02E-03; 9.77E-05; 4.01E-08; 2.37E-03;  
 82500.00; 3.29E-03; 2.50E-04; 8.89E-04; 9.24E-05; 3.51E-08; 2.06E-03;  
 87500.00; 2.92E-03; 2.39E-04; 7.79E-04; 8.75E-05; 3.10E-08; 1.81E-03;  
 92500.00; 1.94E-03; 1.30E-04; 5.25E-04; 5.09E-05; 2.12E-08; 1.23E-03;  
 97500.00; 2.41E-03; 2.22E-04; 6.32E-04; 7.96E-05; 2.54E-08; 1.48E-03;

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## BalING51:

### Roční:

EFF DOSP podle cest: Suma pres segm.: SMER= 6  
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MODEL,KPS,KRK, THAV, TBLONG(rok), ING, TSPD, TING :  
 2 6 0 7.2000E+03 1.0E+00 T 1.82E+02 5.17E+02

XREAL(K)	Efektivni	mrak	depo	inhalance	inh(resus.)	ingesce : celkova az do r.
1.	(m)	(Sv)	(Sv)	(Sv)	(Sv)	
500.00;	6.67E-01;	8.63E-03;	5.29E-02;	2.30E-02;	2.07E-04;	5.82E-01;
1500.00;	4.28E-01;	3.08E-03;	3.14E-02;	1.80E-02;	1.38E-04;	3.76E-01;
2500.00;	2.48E-01;	1.99E-03;	1.90E-02;	1.02E-02;	7.92E-05;	2.17E-01;
3500.00;	1.61E-01;	1.64E-03;	1.29E-02;	6.39E-03;	5.08E-05;	1.40E-01;
4500.00;	2.46E-01;	1.35E-03;	1.96E-02;	3.46E-03;	8.02E-05;	2.22E-01;
5500.00;	6.41E-02;	1.14E-03;	6.17E-03;	2.05E-03;	1.92E-05;	5.48E-02;
6500.00;	5.08E-02;	9.80E-04;	5.04E-03;	1.54E-03;	1.50E-05;	4.33E-02;
7500.00;	4.17E-02;	8.54E-04;	4.23E-03;	1.20E-03;	1.22E-05;	3.54E-02;
8500.00;	3.51E-02;	7.52E-04;	3.63E-03;	9.65E-04;	1.02E-05;	2.97E-02;
9500.00;	3.01E-02;	6.68E-04;	3.16E-03;	7.96E-04;	8.74E-06;	2.55E-02;
10500.00;	5.67E-02;	7.73E-04;	5.69E-03;	7.72E-04;	1.68E-05;	4.94E-02;
11500.00;	4.85E-02;	7.99E-04;	5.10E-03;	6.73E-04;	1.39E-05;	4.19E-02;
13000.00;	4.39E-02;	9.07E-04;	4.78E-03;	6.53E-04;	1.22E-05;	3.76E-02;
15000.00;	1.66E-02;	5.92E-04;	1.88E-03;	4.17E-04;	4.52E-06;	1.37E-02;
17000.00;	1.34E-02;	3.77E-04;	1.56E-03;	2.81E-04;	3.72E-06;	1.12E-02;
19000.00;	1.21E-02;	3.42E-04;	1.40E-03;	2.52E-04;	3.33E-06;	1.01E-02;
21000.00;	1.09E-02;	3.25E-04;	1.27E-03;	2.33E-04;	3.00E-06;	9.10E-03;
23000.00;	1.68E-02;	3.09E-04;	1.88E-03;	2.11E-04;	4.60E-06;	1.44E-02;
25000.00;	8.82E-03;	2.96E-04;	1.04E-03;	1.94E-04;	2.38E-06;	7.29E-03;
27000.00;	8.12E-03;	2.84E-04;	9.58E-04;	1.82E-04;	2.18E-06;	6.69E-03;
29000.00;	7.49E-03;	2.73E-04;	8.85E-04;	1.72E-04;	2.00E-06;	6.16E-03;
32500.00;	1.10E-02;	2.56E-04;	1.26E-03;	1.52E-04;	2.91E-06;	9.30E-03;
37500.00;	8.74E-03;	2.36E-04;	1.01E-03;	1.28E-04;	2.27E-06;	7.36E-03;
42500.00;	4.73E-03;	3.89E-04;	5.43E-04;	1.79E-04;	1.11E-06;	3.62E-03;
47500.00;	7.85E-03;	3.63E-04;	9.09E-04;	1.56E-04;	1.88E-06;	6.42E-03;
52500.00;	2.75E-03;	3.40E-04;	3.05E-04;	1.39E-04;	5.91E-07;	1.97E-03;
57500.00;	2.34E-03;	3.21E-04;	2.52E-04;	1.28E-04;	4.86E-07;	1.63E-03;
62500.00;	2.01E-03;	3.03E-04;	2.11E-04;	1.19E-04;	4.05E-07;	1.37E-03;
67500.00;	1.75E-03;	2.88E-04;	1.79E-04;	1.11E-04;	3.41E-07;	1.17E-03;
72500.00;	1.53E-03;	2.74E-04;	1.53E-04;	1.04E-04;	2.90E-07;	1.00E-03;
77500.00;	1.36E-03;	2.61E-04;	1.32E-04;	9.77E-05;	2.49E-07;	8.72E-04;
82500.00;	1.22E-03;	2.50E-04;	1.15E-04;	9.24E-05;	2.16E-07;	7.65E-04;
87500.00;	1.11E-03;	2.39E-04;	1.01E-04;	8.75E-05;	1.89E-07;	6.77E-04;
92500.00;	7.15E-04;	1.30E-04;	6.85E-05;	5.09E-05;	1.33E-07;	4.66E-04;
97500.00;	9.42E-04;	2.22E-04;	8.25E-05;	7.96E-05;	1.54E-07;	5.58E-04;

### 50ti letá:

EFF DOSP podle cest: Suma pres segm.: SMER= 6  
 ++++++

MODEL,KPS,KRK, THAV, TBLONG(rok), ING, TSPD, TING :  
 2 6 0 7.2000E+03 5.0E+01 T 2.00E+00 5.17E+02

XREAL (K) (m)	Efektivni (Sv)	mrak (Sv)	depo (Sv)	inhalance (Sv)	inh(resus.) (Sv)	ingesce : celkova az do r.50.
500.00;	1.24E+00;	8.63E-03;	2.68E-01;	2.30E-02;	2.10E-04;	9.44E-01;
1500.00;	7.05E-01;	3.08E-03;	1.35E-01;	1.80E-02;	1.39E-04;	5.49E-01;
2500.00;	4.35E-01;	1.99E-03;	8.91E-02;	1.02E-02;	7.99E-05;	3.33E-01;
3500.00;	3.00E-01;	1.64E-03;	6.49E-02;	6.39E-03;	5.14E-05;	2.27E-01;
4500.00;	4.40E-01;	1.35E-03;	9.26E-02;	3.46E-03;	8.10E-05;	3.43E-01;
5500.00;	1.52E-01;	1.14E-03;	3.93E-02;	2.05E-03;	1.95E-05;	1.10E-01;
6500.00;	1.25E-01;	9.80E-04;	3.30E-02;	1.54E-03;	1.53E-05;	8.99E-02;
7500.00;	1.06E-01;	8.54E-04;	2.83E-02;	1.20E-03;	1.25E-05;	7.56E-02;
8500.00;	9.15E-02;	7.52E-04;	2.47E-02;	9.65E-04;	1.05E-05;	6.50E-02;
9500.00;	8.01E-02;	6.68E-04;	2.19E-02;	7.96E-04;	8.93E-06;	5.68E-02;
10500.00;	1.40E-01;	7.73E-04;	3.69E-02;	7.72E-04;	1.71E-05;	1.01E-01;
11500.00;	1.27E-01;	7.99E-04;	3.47E-02;	6.73E-04;	1.42E-05;	9.10E-02;
13000.00;	1.21E-01;	9.07E-04;	3.37E-02;	6.53E-04;	1.25E-05;	8.55E-02;
15000.00;	4.90E-02;	5.92E-04;	1.40E-02;	4.17E-04;	4.65E-06;	3.40E-02;
17000.00;	4.04E-02;	3.77E-04;	1.17E-02;	2.81E-04;	3.83E-06;	2.81E-02;
19000.00;	3.63E-02;	3.42E-04;	1.05E-02;	2.52E-04;	3.42E-06;	2.52E-02;
21000.00;	3.31E-02;	3.25E-04;	9.55E-03;	2.33E-04;	3.09E-06;	2.29E-02;
23000.00;	4.80E-02;	3.09E-04;	1.36E-02;	2.11E-04;	4.72E-06;	3.38E-02;
25000.00;	2.72E-02;	2.96E-04;	7.93E-03;	1.94E-04;	2.45E-06;	1.88E-02;
27000.00;	2.51E-02;	2.84E-04;	7.32E-03;	1.82E-04;	2.24E-06;	1.73E-02;
29000.00;	2.32E-02;	2.73E-04;	6.77E-03;	1.72E-04;	2.06E-06;	1.60E-02;
32500.00;	3.23E-02;	2.56E-04;	9.27E-03;	1.52E-04;	2.99E-06;	2.26E-02;
37500.00;	2.61E-02;	2.36E-04;	7.55E-03;	1.28E-04;	2.33E-06;	1.82E-02;
42500.00;	1.46E-02;	3.89E-04;	4.25E-03;	1.79E-04;	1.15E-06;	9.81E-03;
47500.00;	2.37E-02;	3.63E-04;	6.87E-03;	1.56E-04;	1.94E-06;	1.63E-02;
52500.00;	8.43E-03;	3.40E-04;	2.43E-03;	1.39E-04;	6.12E-07;	5.52E-03;
57500.00;	7.02E-03;	3.21E-04;	2.01E-03;	1.28E-04;	5.04E-07;	4.56E-03;
62500.00;	5.91E-03;	3.03E-04;	1.67E-03;	1.19E-04;	4.20E-07;	3.81E-03;
67500.00;	5.03E-03;	2.88E-04;	1.41E-03;	1.11E-04;	3.53E-07;	3.22E-03;
72500.00;	4.33E-03;	2.74E-04;	1.20E-03;	1.04E-04;	3.00E-07;	2.75E-03;
77500.00;	3.76E-03;	2.61E-04;	1.03E-03;	9.77E-05;	2.58E-07;	2.37E-03;
82500.00;	3.31E-03;	2.50E-04;	8.97E-04;	9.24E-05;	2.24E-07;	2.07E-03;
87500.00;	2.93E-03;	2.39E-04;	7.87E-04;	8.75E-05;	1.96E-07;	1.82E-03;
92500.00;	1.94E-03;	1.30E-04;	5.29E-04;	5.09E-05;	1.37E-07;	1.23E-03;
97500.00;	2.42E-03;	2.22E-04;	6.38E-04;	7.96E-05;	1.59E-07;	1.48E-03;

\*\*\*\*\*

## 2-D zobrazení pro PRIMOALL:

Zobrazovací software je umístěn v podadresáři:

c:\PRIMO\PRIMO\_2D\_GUI

Zobrazovací funkce se vyvolají postupem:

- nakopíruj c:\PRIMO\PRIMOEXE\SPAD.OUT a GRAFH00.OUT do c:\PRIMO\PRIMO\_2D\_GUI\data\\*.\*
- spuštění c:\PRIMO\PRIMO\_2D\_GUI\dist\PRIMO\_2D\_GUI.exe

OK

\*\*\*\*\*

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Definice scenáře pro HARP, který by byl co nejvíce podobný předchozímu 3-segmentovému PRIMO:

3 segm o trvání 4 , 4, 8 hodin (kat D (5m/s, prsi), C (4m/s, ne), F (1m/s, ne)

Takze celkem HARP udela 16 hodinových segmentu:

v HAVIN (HARP) : May24\_2010\_KRK1\_3SEGM\_sm6.xml

udela havin.dat a meteo.wea:

3SEGM\_PARANO\_HARPKRK1\_CEZ\_NJZrev2,3seg\*1/3

May24\_2010,3seg,6smer,DCF,,prsi2MMproD, max 16 hodinových segm

2

6

```

35 35
0 0 3
1 0
D 0
    45.0 8
    86400.    180.0    180.0
    1.0
    4.0000
    6 6 6
    5.0000    4.0000    1.0000
D C F
    4.0000    4.0000    8.0000
    0.0        0.0        0.0
    0.0        0.0        0.0
    45.0       45.0       45.0
45.
507.
    200.0
F
T 1
    0.0
    1.6
    0.0
1.0 2.0 2.0 2.0 2.0 1.0
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.
6
0
1
    0.00070    0.00150    0.00200    0.00750    0.00050
    0.00080    0.00250    0.00300    0.00850    0.00080
    0.00100    0.01500    0.02000    0.07300    0.00500
    0.00050    0.00015    0.00020    0.00075    0.00050

SEGMENT 1 : srazky a uniky:
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00
SR90      1.80E+12
RU103     1.00E+12
TE131M    7.00E+12
I131O     1.80E+13
I131      3.00E+14
I131A     1.80E+13
XE133     2.60E+17
CS137     1.00E+13
BA140     3.30E+13
LA140     1.80E+12
CE141     1.33E+12
KONEC
SEGMENT 2 : srazky a uniky:
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00
SR90      1.80E+12
RU103     1.00E+12
TE131M    7.00E+12
I131O     1.80E+13
I131      3.00E+14
I131A     1.80E+13
XE133     2.60E+17
CS137     1.00E+13
BA140     3.30E+13
LA140     1.80E+12
CE141     1.33E+12
KONEC
SEGMENT 3 : srazky a uniky:
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00    0.00
    0.00    0.00    0.00    0.00    0.00
SR90      1.80E+12
RU103     1.00E+12

```

TE131M 7.00E+12  
 I131O 1.80E+13  
 I131 3.00E+14  
 I131A 1.80E+13  
 XE133 2.60E+17  
 CS137 1.00E+13  
 BA140 3.30E+13  
 LA140 1.80E+12  
 CE141 1.33E+12  
 KONEC

meteo.wea:

3segm: kat DCF, D prsi, 5,4,1 m/s

1.00	1.00	292.50	5.00	D	2.00	400.00
1.00	2.00	292.50	5.00	D	2.00	400.00
1.00	3.00	292.50	5.00	D	2.00	400.00
1.00	4.00	292.50	5.00	D	2.00	400.00
1.00	5.00	292.50	4.00	C	0.00	400.00
1.00	6.00	292.50	4.00	C	0.00	400.00
1.00	7.00	292.50	4.00	C	0.00	400.00
1.00	8.00	292.50	4.00	C	0.00	400.00
1.00	9.00	292.50	1.00	F	0.00	400.00
1.00	10.00	292.50	1.00	F	0.00	200.00
1.00	11.00	292.50	1.00	F	0.00	200.00
1.00	12.00	292.50	1.00	F	0.00	200.00
1.00	13.00	292.50	1.00	F	0.00	200.00
1.00	14.00	292.50	1.00	F	0.00	200.00
1.00	15.00	292.50	1.00	F	0.00	200.00
1.00	16.00	292.50	1.00	F	0.00	200.00
1.00	17.00	292.50	1.00	F	0.00	200.00
1.00	18.00	292.50	1.00	F	0.00	200.00
1.00	19.00	292.50	1.00	F	0.00	200.00
1.00	20.00	292.50	1.00	F	0.00	200.00
1.00	21.00	292.50	1.00	F	0.00	200.00
1.00	22.00	292.50	1.00	F	0.00	200.00
1.00	23.00	292.50	1.00	F	0.00	200.00
1.00	24.00	292.50	1.00	F	0.00	200.00
1.00	25.00	292.50	1.00	F	0.00	200.00
1.00	26.00	292.50	1.00	F	0.00	200.00
1.00	27.00	292.50	1.00	F	0.00	200.00
1.00	28.00	292.50	1.00	F	0.00	200.00
1.00	29.00	292.50	1.00	F	0.00	200.00
1.00	30.00	292.50	1.00	F	0.00	200.00
1.00	31.00	292.50	1.00	F	0.00	200.00
1.00	32.00	292.50	1.00	F	0.00	200.00
1.00	33.00	292.50	2.00	F	0.00	200.00
1.00	34.00	292.50	2.00	F	0.00	200.00
1.00	35.00	292.50	2.00	F	0.00	200.00
1.00	36.00	292.50	2.00	F	0.00	200.00
1.00	37.00	292.50	2.00	F	0.00	200.00
1.00	38.00	292.50	2.00	F	0.00	200.00
1.00	39.00	292.50	2.00	F	0.00	200.00
1.00	40.00	292.50	2.00	F	0.00	200.00
1.00	41.00	292.50	2.00	F	0.00	200.00
1.00	42.00	292.50	2.00	F	0.00	200.00
1.00	43.00	292.50	2.00	F	0.00	200.00
1.00	44.00	292.50	2.00	F	0.00	200.00
1.00	45.00	292.50	2.00	F	0.00	200.00
1.00	46.00	292.50	2.00	F	0.00	200.00
1.00	47.00	292.50	2.00	F	0.00	200.00
1.00	48.00	292.50	2.00	F	0.00	200.00

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## HARP: 50ti leté:

#DDT:aot=613 Totální úvazky z časné i pozdější fáze Sv Čas TRVing= 50.rok;

26	1.22E+00	6.45E-01	3.80E-01	2.50E-01	3.21E-01	1.30E-01	1.05E-01	8.83E-02	7.55E-02
	6.54E-02	9.48E-02	7.75E-02	5.29E-02	2.80E-02	3.10E-02	2.70E-02	2.32E-02	4.07E-02
	1.90E-02	1.75E-02	1.62E-02	2.93E-02	2.42E-02	9.03E-03	1.83E-02	5.49E-03	4.73E-03
	4.17E-03	3.71E-03	3.31E-03	2.75E-03	2.08E-03	1.49E-03	9.41E-04	2.52E-04	

#DDG:aot=114 Vnitřní ozáření z dlouhodobé ingesce Sv Čas TRVing= 67.roku  
 po spadu

26	5.99E-01	3.40E-01	1.89E-01	1.18E-01	1.71E-01	5.32E-02	4.24E-02	3.51E-02	2.97E-02
	2.55E-02	4.39E-02	3.46E-02	2.32E-02	1.04E-02	1.15E-02	1.01E-02	8.80E-03	1.80E-02
	7.13E-03	6.59E-03	6.12E-03	1.28E-02	1.03E-02	3.32E-03	7.70E-03	1.95E-03	1.73E-03
	1.56E-03	1.42E-03	1.28E-03	1.06E-03	7.93E-04	5.39E-04	2.99E-04	8.08E-05	

#DDD:aot=016 Dlouhodobé externí ozáření z depozice Sv Čas TBlong=  
 18250.den;

26	5.93E-01	2.87E-01	1.81E-01	1.26E-01	1.46E-01	7.39E-02	6.09E-02	5.15E-02	4.44E-02
	3.87E-02	4.98E-02	4.20E-02	2.89E-02	1.69E-02	1.89E-02	1.63E-02	1.39E-02	2.22E-02
	1.14E-02	1.04E-02	9.59E-03	1.61E-02	1.35E-02	5.35E-03	1.03E-02	3.21E-03	2.68E-03
	2.30E-03	1.98E-03	1.73E-03	1.42E-03	1.07E-03	7.79E-04	5.20E-04	1.39E-04	

## ještě HARP-roční:

#DDT:aot=611 Totální úvazky z časně i pozdější fáze Sv Čas TRVing= 1.roku;

26	6.10E-01	3.54E-01	1.94E-01	1.20E-01	1.72E-01	5.26E-02	4.15E-02	3.42E-02	2.88E-02
	2.48E-02	4.31E-02	3.38E-02	2.29E-02	1.02E-02	1.11E-02	9.84E-03	8.63E-03	1.76E-02
	7.02E-03	6.52E-03	6.09E-03	1.26E-02	1.01E-02	3.40E-03	7.58E-03	2.10E-03	1.91E-03
	1.75E-03	1.63E-03	1.49E-03	1.26E-03	9.65E-04	6.75E-04	3.90E-04	1.05E-04	

#DDG:aot=611 Vnitřní ozáření z dlouhodobé ingesce Sv Čas TRVing= 0.roku  
 po spadu;

26	5.33E-01	3.09E-01	1.68E-01	1.04E-01	1.55E-01	4.49E-02	3.55E-02	2.92E-02	2.46E-02
	2.11E-02	3.83E-02	2.98E-02	2.00E-02	8.44E-03	9.31E-03	8.26E-03	7.22E-03	1.55E-02
	5.83E-03	5.40E-03	5.03E-03	1.10E-02	8.81E-03	2.71E-03	6.54E-03	1.58E-03	1.42E-03
	1.29E-03	1.19E-03	1.08E-03	9.02E-04	6.73E-04	4.51E-04	2.39E-04	6.48E-05	

#DDD:aot=014 Dlouhodobé externí ozáření z depozice Sv Čas TBlong=  
 365.den;

26	4.98E-02	2.67E-02	1.53E-02	9.92E-03	1.34E-02	4.92E-03	3.97E-03	3.32E-03	2.83E-03
	2.45E-03	3.77E-03	3.04E-03	2.06E-03	1.02E-03	1.14E-03	9.96E-04	8.58E-04	1.60E-03
	6.99E-04	6.43E-04	5.94E-04	1.14E-03	9.30E-04	3.25E-04	6.97E-04	1.92E-04	1.66E-04
	1.46E-04	1.30E-04	1.15E-04	9.52E-05	7.09E-05	4.94E-05	2.95E-05	7.93E-06	

HARP vysledky takto naladene vypadaji OK

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úmyslné rozdíly: DEPO: HARP ma E(t)=1.0, zatímco PRIMO= BUNZL  
 INGESCE: naopak: HARP(Baliky) bere pro koren v dalsich letech rozpad + migr+fix..  
 PRIMO+ING51: zde konzervativne jen rozpad v dalsich letech pro  
 korenový transport

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