



**HAL**  
open science

## Expected fatalities for one wedge of CCS mitigation

Minh Ha-Duong, Rodica Loisel

► **To cite this version:**

Minh Ha-Duong, Rodica Loisel. Expected fatalities for one wedge of CCS mitigation. IARU conference "Climate Change: Global Risks, Challenges and Decisions", 2009, Copenhagen, Denmark. 2009. hal-00835532

**HAL Id: hal-00835532**

**<https://enpc.hal.science/hal-00835532>**

Submitted on 18 Jun 2013

**HAL** is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



# H{ s hf vhg idvddvthv ir ur qh z hgj h r i F F V p lvj dvr q

Df vxduldouvn dvvhvvp hqwr i f dner q f dswxh ) vwrudj h dwkxh j o edovf ddn lq 5383

P lqk Kd0Gxr qj <sup>4/5</sup> Ur glfd Or lvho<sup>4</sup>

<sup>4</sup>FIUHG/ FQUVIF hqvah lqvhuqdvtr qdogh Uhf khuf kh vxu o Hqylur qqhp hqvhwch G yhar s shp hqv I udqf h l

<sup>5</sup>Fr uhwsv r qglqj dxvkr u=kdgx r qj C f hqvah of luhg li u

## P dlq uhvxo

Dihz kxqguh idvddvthv shu | hdu vkr xo eh h{ s hf vhg li F F V lv xvvhg w vwu h 4 J wF | u<sup>04</sup> lq 53831

Wkh odj h p dmulw r i vkh idvddvthv duh iur p p lqlqj p r uh fr do qh{ wz r xo eh vks slqj fdvxdvthv l

Li vwrudj h vlv s huir up dwulvn dychov vr fldo w duduvg wgd lq dqr j xh lqv dduv r qv/ idvddvthv shu | hdu fr xo eh dhv vkdq r qh l

## Dqdq vlv

Wkh odj h vws duw r i vkh ulvn lv nqr z ded/ r ffxs dvr qdodqg w duduvg l

F F V ehqhilwlv p xfk odj hu vkdq lw fr vvlq vhu p v r i idvddvthv = Dedv lqj 4 J wF | u<sup>04</sup> z r xo p lvj dvh e | dih z ( vkh lqf uhdv h lq z dhu vvhv d qg h{ whp h hyhqw/ z klfk fr vwp r uh vkdq 43<sup>8</sup> dyhv hdfk | hdu l

Ehvlghv hqhuj | vdy lqj / doo p lvj dvr q r s v r qv f duj q r q o; hur ulvn l Wkh odj hvk | gur hchf wlf gdp idloxh f dxvhg A59 B33 lp p hgl dvh idvddvthv -F klq d/ 4 <: 8, 1

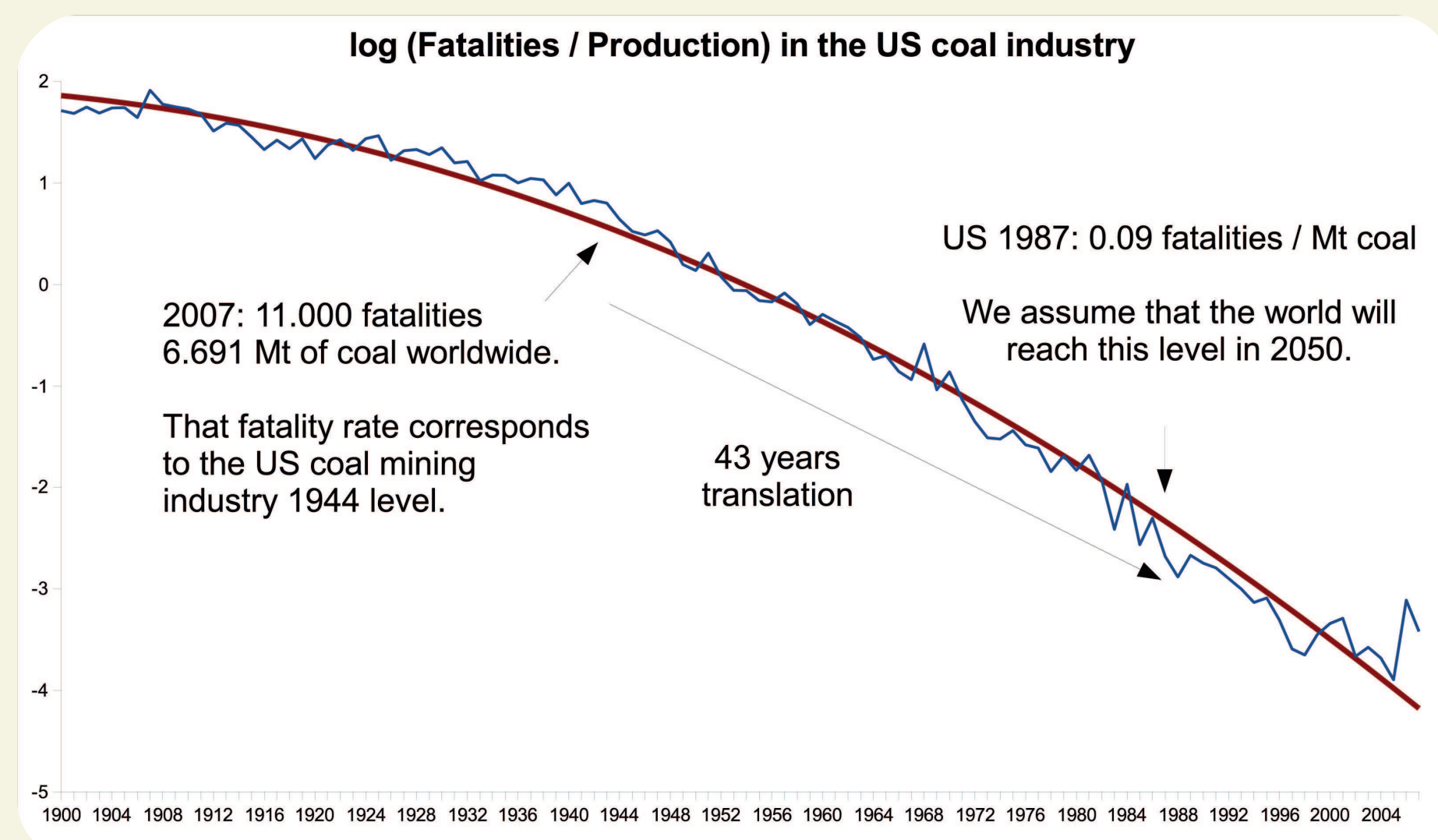
## Glvf xvvr q

Df vxduldods s ur dfkhv gr qr wdf fr xqw ir u vkh s xedf vylhz d qg klj khur ughu lp s dfw +vlqj dhv q hwdol 533 <, 1 Edvvhg r q dp lvhg vdwvlf v r q dqr j xh df flghq w/ h{ s hf vhg ydoxhv duh xqfr uhf vhg ir u uhs r u lqj eldvvhv d qg j r edo h{ wds r odv h g w 53831

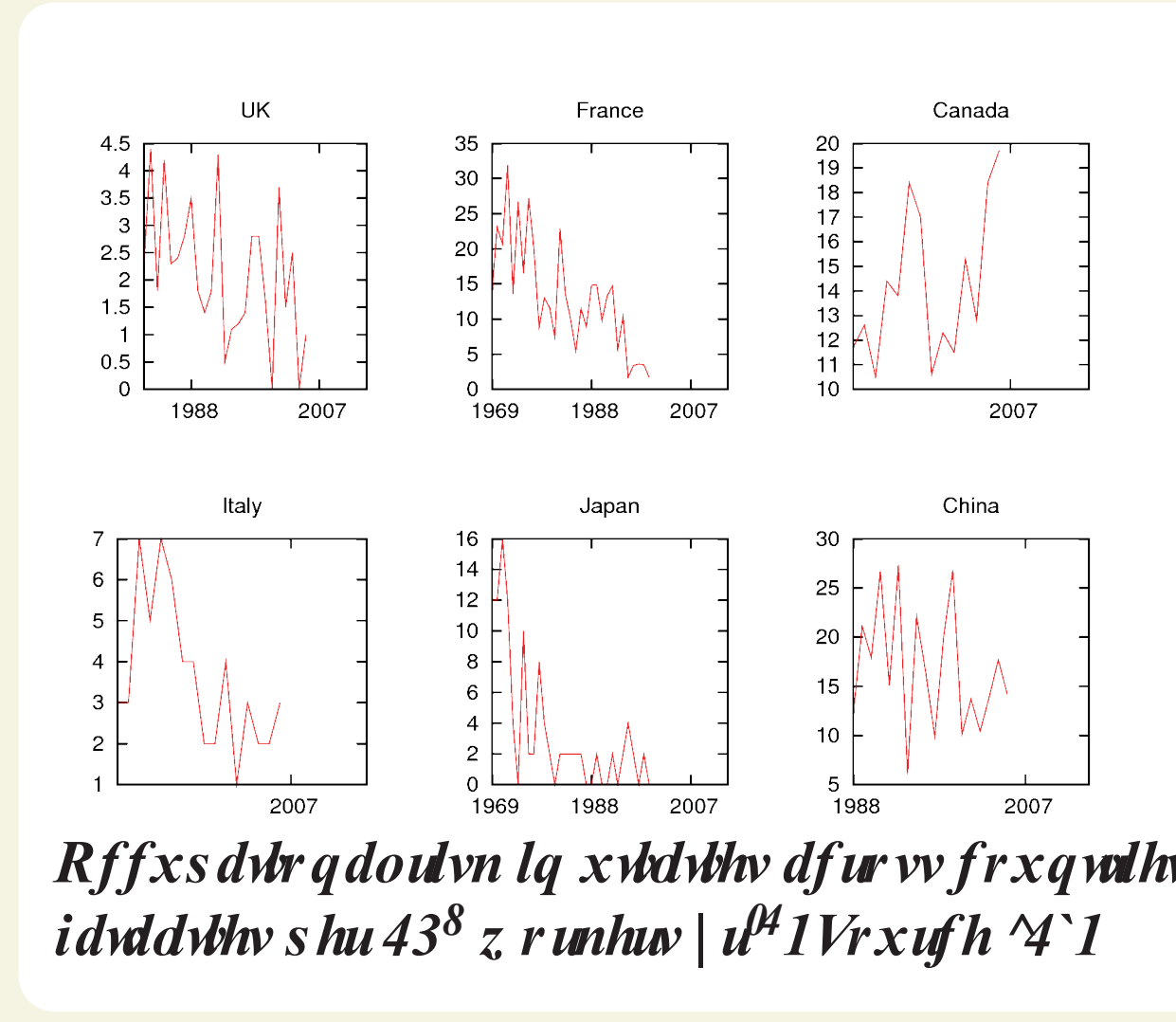
\ h wklv s r lqwr i y lhz fr p s dhp hqw udglf doo p r vwr vkh s xedvkhg hqj lqh hulqj r u vr fldouvn d qd d vlv =

**U h j d u g l q j r e n h f v y h d j h { s h f v h g i d v d d v t h v / v k h u l v n r i d h d n d j h l v v k h d h d v w p s r u v d q v l**

## P lqlqj 8 J wri frdo=583 w 833 idvddvthv



## FR5 fds vxuh dw4 B33 vlvh=4 w ; idvddvthv



. 8 w . 43 z r unhu s hu vlvh  
6 w 47 idvddvthv shu 433 B33 z r unhu lq xvddvthv +vhh ilj xuh dhw/ 7 w 4: lq vkh fkh p lfdol qgxvwl ^5`  
lqgxvddoxv h r i FR5 lv 4330448 P v u ^6` / d qg vkh h duh 45 u h r u g h g h d v k v i u r p FR5 fkh p lfdoxv h 4 < 5904 <<: ^7` / v k d w l v 4 / : g h d v k v | u<sup>04</sup> J w<sup>04</sup> FR5

411CR/4-9-05339  
51Udj kbdy d qg: Vx dp lqhdky/4-9  
61Dduv d qg Wp p dvl/4-9-05337  
71Nkdq d qg Deedvl/4-9-05337

## Vks slqj 5B33 J wp ldv=56 w 8: idvddvthv

Z h dvxp h vkw43( r i FR5 lv vks shg udvkh vkdq sls hdqhg/ dv p d q l FR5 hp lvhu v dnh sr z hus odq w d qg khdy l qgxvvlhv duh a f dvh g lq sr uxduj } r qhv l Wkh vdwvlf do idvddvthv vlv lq vks slqj lv der xw`  
44/7 idvddvthv Ww<sup>04</sup> p lch<sup>04</sup> | u<sup>04</sup> lq r lowlqnlqj r yhu 4 < ; 05334 ^4`  
5; /9 idvddvthv Ww<sup>04</sup> p lch<sup>04</sup> | u<sup>04</sup> lq doj r r gv w d g h r yhu 4 < ; < 05337 ^5`

411CR/4-9-05339  
51Udj kbdy d qg: Vx dp lqhdky/4-9  
61Dduv d qg Wp p dvl/4-9-05337  
71Nkdq d qg Deedvl/4-9-05337

## 483B33 np ri sls hdqhv=4 w 48 idvddvthv

	Qdwxudoj dv w d q p l v l r q	Kd} d u g r x v dt x l g v	FR5
Shur g	4<; 90533;	4<; 90533;	4<<30533;
I d v d d v t h v	98	83	3
Qh w r u n v l j h -4333 np ,	855	588	9/5
I d v p n p j u	8/7	; /8	3

V d v h v f v r i s l s h d q h i d v d o l q f l g h q w l q v k h X V D I V r x u f l = X V G r W S K P V D - 533 <

XV=8/7 0; /8 idv p np<sup>04</sup> | u<sup>04</sup> +vhh v d e d h ,  
Hxur sh=44/4 idv p np<sup>04</sup> | u<sup>04</sup> +Rlo  
sls hdqhv/ 4<; 405339/ Fr qf dz l v 533 ; ,  
Wkh }hur idvddvthv r q 3/44; : P np | ur i FR5 sls hdqh qhw r un lp s d d vlv eh o z 58/76 idvddvthv P np<sup>04</sup> | u<sup>04</sup> 1

v d w p l q j d S r l v r q s u r f l v - 8 ( f r q l g h q f h d y h o h B B 4 : - 5876 @ 3 B 8 .

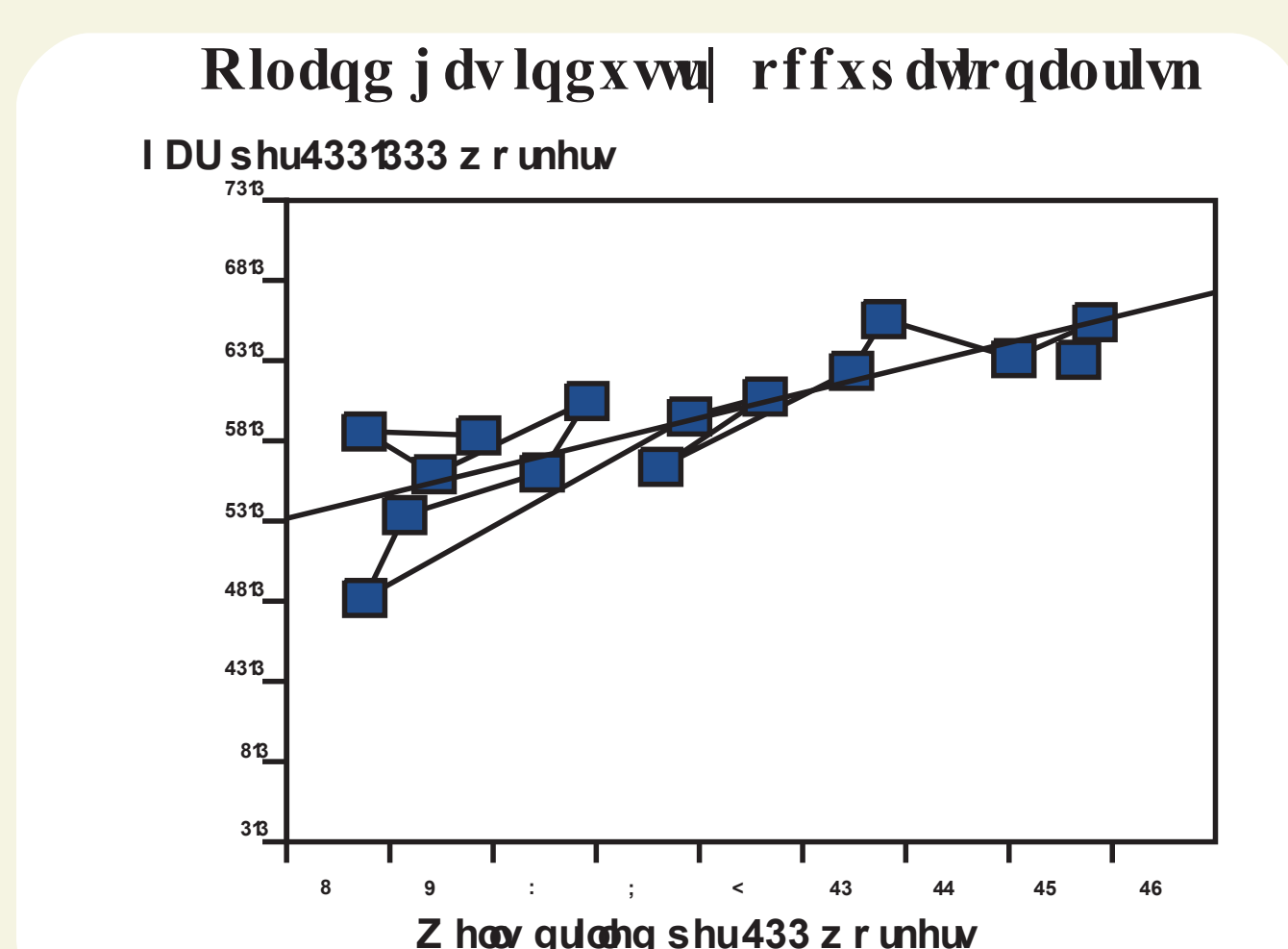
V r p h r v f l h v h v p d l w d u d v h d u l v n u d v h d v k l j k d v 43<sup>07</sup> idvddvthv np<sup>04</sup> | u<sup>04</sup> ^4` 1

41M d qg F u z o 533;

## 9B33 lqrhf vtr q z hoo=43 w 56 idvddvthv

Edvvhg r q 4 << 60533: v d v h v l f v / z h h v l p d v h g v k d w l q v k h X V r l o d q g j d v l q g x v w l / s h u 433 B33 z r unhu =

I d v d d v t h v @ 46/5 . 47: Z h o o 2 Z r unhu  
Dvxp lqj 43 z r unhu 2Z h o o z h u h s r u w vkh < 8 ( f r q i l g h q f h l q v h u y d o o l



## Vwrudj h dw4 B33 vlvh=3 04 idvddvthv

D q d r j | z l v k v a d p l q r h f v r q v k r z v o z e o z r r x w d v h v d q g f r q v h t x h q f h v i u r p r s h u d v r q d o l g h d k x v o l q d q g d e d q r q h g z h o o = r q h i d v d v h 4 << 405338 ir u 7 B86 l q r h f v r q z h o o / q r s x e d f l q r u l h v ^4` 1

Wkh DODUS s ulqf l s d h s d h v = d o u h d v r q d e d h p d v x u h l q v k h D O D U S } r q h z l o e h v a n h q w u h g x f h v k h u l v n x q v o v k h f r v v r i i x u k h u h g x f v r q l v g l v s u r s r u l r q d v h z l v k v k e h q h i l w D f f h s v h g u l v n d y h o v i r u d q d r j x h s u r t h v u d q j h i u r p 43<sup>09</sup> w 43<sup>07</sup> idvddvthv shu | hdu ^5` 1

41M d qg F u z o 533;  
51Udj kbdy d qg: Vx dp lqhdky/4-9