



STATENS
STRÅLSKYDDSinSTITUT



STATENS KÄRNKRAFTINSPEKTION
Swedish Nuclear Power Inspectorate

0507-04

[TELEFAX ÖVERFÖRING]

TELEFAX MESSAGE

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DATUM. MAY 7
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[AVSÄNDARE] SENDER

[MOTTAGARE] TO: NRC

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THIS MESSAGE HAS 4 PAGES
DENNA ÖVERFÖRING OMFATTAR SIDOR

MOTTAGANDET ÖNSKAS BEKRÄFTAT / EJ BEKRÄFTAT

Hereby I transmit latest updated version of typical measurements of
radioactivity in Sweden.

Regards

Alf Larsson

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PDR FOIA
TAYLOR86-335 PDR

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Radioactivity Measurements in Sweden after Chernobyl Accident

(Updated 19860606, SSI/SKI AL)

Measurements on grass, typical values

Nuclide	Value	Unit	Date	Location
I-131	2.0E+04	Bq/m ²	860501	Uppsala
I-131	1.8E+02		860502	Göteborg
I-131	3.5E+03		860503	Eskilstuna
	7.6E+03			Gotland V
	9.7E+03			Gotland O
	1.1E+04			Norrköping
	7.0E+01		860504	Lund
	1.1E+04			Gotland
	5.0E+02			near Norrköping
	4.3E+03			Oskarshamn
	4.8E+01		860504	Göteborg
	8.6E+03		860505	Norrköping
	4.3E+03		860505	Oskarshamn

Measurements in air (filters typical values)

Nuclide	Value	Unit	Date	Location
I-131	5.2E+00	Bq/m ³	860428	Studsvik
	1.9E+02			Simpevarp (Oskarshamn)
	6.7E+00		860429	Studsvik
	1.0E+01			Simpevarp
	4.4E+00			Stockholm
	1.6E+00		860430	Stockholm
	9.3E-02		860501	Stockholm
	4.2E-02		860502	Stockholm
	4.2E-02		860503	Stockholm

Measurements of cow milk (typical values)

Nuclide	Value	Unit	Date	Location
I-131	1.22+01	Bq/l	860429	Simpevarp
	2.8E+01		860429	Simpevarp
	4.7E+01			Malmö
	8.8E+00			Göteborg
	4.6E+00			Sundsvall
	5.9E+00			Västerås
	2.0E+01		860430	Västerås
	2.4E+00			Göteborg
	5.2E+00			Stockholm

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2.8E+01		Uppsala
3.0E+01	860501	Västerås
1.2E+01		Gävle
1.4E+01		Lycksele (N. Sweden)
4.0E+00		Malmö
2.0E+00		Göteborg
2.0E+00	860502	Malmö
2.0E+00		Göteborg
5.6E+00		Gävle
1.3E+01		Stockholm
1.8E+01		Västerås
2.4E+01	860503	Stockholm
1.2E+01		Kalmar
1.5E+03		Öland
4.8E+01		Uppsala
5.0E+01		Gävle
1.0E+03	860504	Öland
3.6E+01		Gävle
2.4E+01	860505	Stockholm
2.0E+00		Luleå (N. Sweden)
2.8E+01		Öland
7.0E+02		Gotland (max)
6.3E+01		Gotland (min)
2.9E+01		Gävle
8.0E+00		Sundsvall
7.0E+00	860506	Stockholm

Measurements of thyroid (typical values)

Nuclide	Value	Unit	Date	Location
I-131	fr 1.0E+01	Bq	fr 860429	Stockholm
	to 1.4E+02		to 860504	Stockholm
	2.5E+02		860430	Kiev, Moscow
	1.4E+03		860502	Russian-Polish border
	1.1E+01		860504	Stockholm
	7.3E+01			Dubrovnik
	3.3E+02		860505	Poland
	9.0E+00			Forsmark
	2.5E+03			Kiev

Measurements from deposition on ground (typical values)

Nuclide	Value	Unit	Date	Location
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I-131	1.1E+04	Bq/m ²	860428	Forsmark (smear tests)
	6.5E+03		860429	Stockholm
	6.6E+03		860430	Stockholm
	1.7E+03		860430	Northern Sweden
	8.1E+02		860504	Southern Sweden

Measurements of mothers milk

I-131	1.5E+01	Bq/l	860427	Stockholm
	2.0E+01		860429	Stockholm
	2.0E+01		860502	Stockholm
	1.0E+01		860504	Stockholm

Drinking water

I-131	7.0E+00	Bq/l	860429	Simpevarp
	3.0E+00		860503	near Stockholm
	3.4E+00		860504	Uppsala

Measurements of deposited material

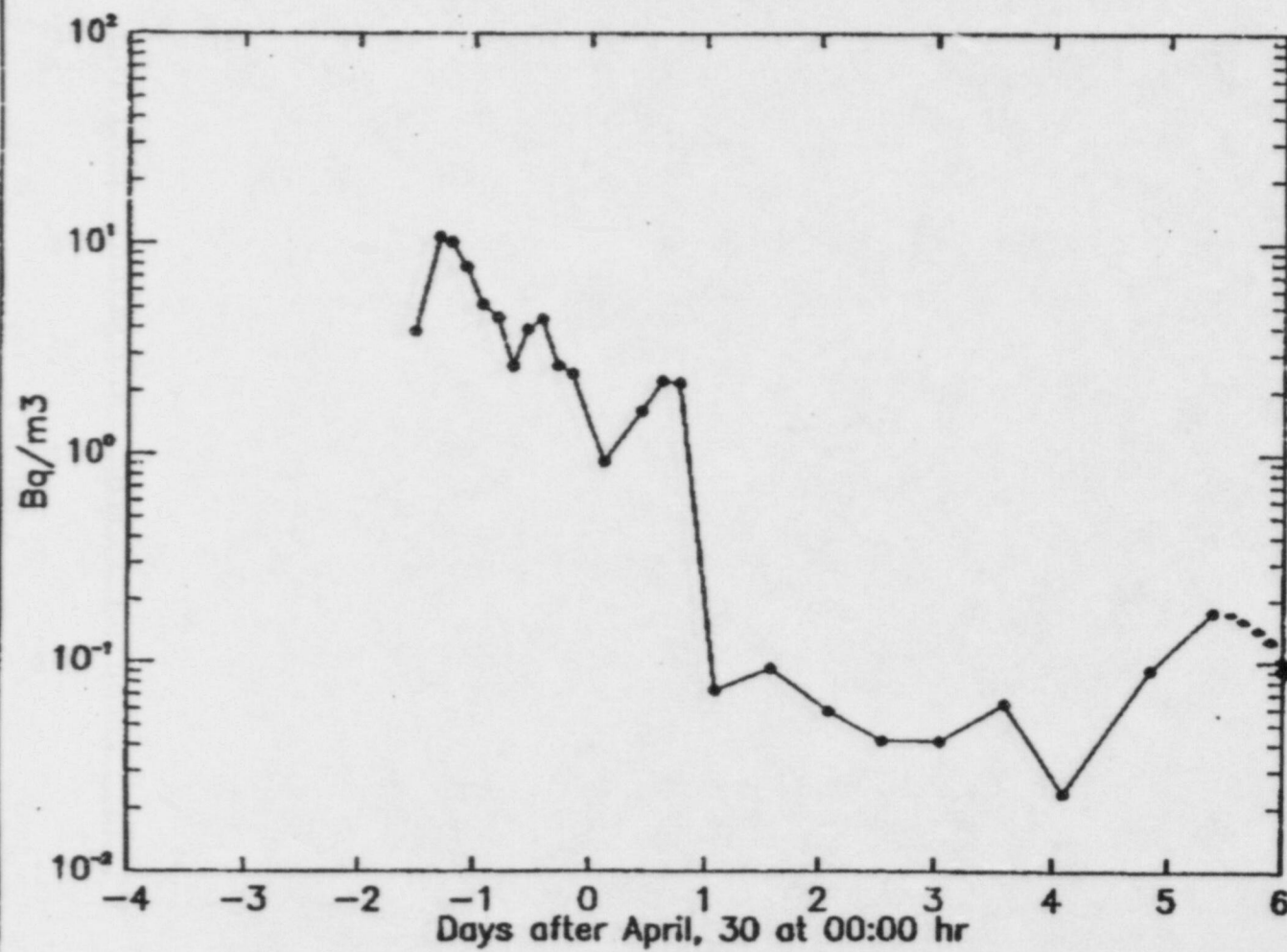
Ba-140	5.5E+03	Bq/m ²	860428	Forsmark (smear test)
Ce-141	4.3E+03			Forsmark
Cs-134	2.0E+02			Forsmark
Cs-137	8.7E+02			Forsmark
Np-239	2.0E+04			Forsmark
I-131	1.1E+04			Forsmark
I-131	6.5E+03		860429	Stockholm
I-131	5.0E+04		860430	N. Forsmark
I-131	6.7E+03			Stockholm
Np-239	1.2E+02		860429	Malmö

Measurements of dose rates

8.0E-09	R/h	860428	Stockholm
1.0E-04		860429	Uppsala
4.5E-09		860502	Stockholm
9.0E-05		860430	Härnösand
8.0E-05		860430	Sundsvall
8.0E-06		860503	Lund (near Malmö)
2.5E-04		860504	Gävle
2.3E-05		860504	Gotland
7.5E-06		860504	Göteborg

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I-131 in Stockholm



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