

REPORT

ON

RADIOACTIVITY OF RAIN-FALL IN HONG KONG

FOR JANUARY 1973

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

JANUARY 1973

BULLETIN
OF
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG
FOR JANUARY 1973

This bulletin gives the results of the routine observations of the gross beta-radioactivity of fall-out in Hong Kong. From October 1961 onwards, regular measurements of the radioactivity of air-borne dust and rainfall samples collected near the earth's surface have been made by Royal Observatory. The data from October 1961 to March 1965 inclusive and the sampling procedures and the methods of calibration etc. have been published in R.O. Technical Notes No. 1 by P.C. Chin and No. 23 by R.F. Apps. Data from April 1965 onwards is published monthly in this bulletin.

The counter used for the beta counting consists of an end window Geiger-muller counter, shielded in a lead chamber, a probe unit and an automatic scaler, Type N 530G manufactured by Ekco Electronics Ltd. England. A thick standard source (potassium chloride) is counted for three sets of one thousand seconds each day to check the stability of the counter. Samples are measured on the fourth day after the end of the collection period when the natural radon, thoron and their daughter products will have decayed.

All samples are collected at the Meteorological Station, King's Park ($22^{\circ} 19'$ North, $114^{\circ} 10'$ East), with the exception of rainfall samples which are obtained from the Royal Observatory ($22^{\circ} 18'$ North, $114^{\circ} 10'$ East).

Beta-Radioactivity of Airborne Dust near the Earth's Surface

Month JAN

Year 1973

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Time of Sampling						Amount of Radioactivity pCi/m ³ of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Dec. 1972						NIL	
31	10	00	01	09	05	NIL	
01	09	10	02	09	15	NIL	
02	09	20	03	10	00	0.11	
03	10	05	04	09	50	NIL	
04	09	55	05	10	05	NIL	
05	10	10	06	10	10	NIL	
06	10	15	07	10	00	NIL	
07	10	05	08	09	45	NIL	
08	09	50	09	09	30	NIL	
09	09	35	10	09	35	0.08	
10	09	40	11	09	30	0.08	
11	09	35	12	09	30	0.11	
12	09	35	13	09	55	0.19	
13	10	00	14	09	45	0.02	
14	09	50	15	09	00	0.23	
15	09	05	16	10	25	0.05	
16	10	30	17	09	00	0.11	
17	09	10	18	09	25	0.03	
18	09	30	19	09	00	NIL	
19	09	05	20	09	00	0.08	
20	09	05	21	09	40	NIL	
21	09	45	22	09	55	0.07	
22	10	00	23	09	20	0.02	
23	09	25	24	09	20	NIL	
24	09	25	25	10	10	0.06	
25	10	25	26	09	10	NIL	
26	09	20	27	09	50	0.32	
27	09	55	28	09	10	0.01	
28	09	15	29	09	20	NIL	
29	09	25	30	10	00	0.01	
30	10	05	31	09	50	0.02	

Monthly mean : 0.05

Maximum : 0.32

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month JAN

Year 1973

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
30	01	NIL	Collecting period 48 hrs. from 0800 H.K. ST. Time to 0800 H.K. ST.
01	03	NIL	
03	05	0.31	
05	07	NIL	Time Approx.
07	09	0.05	
09	11	NIL	
11	13	0.02	
13	15	NIL	
15	17	NIL	
17	19	0.07	
19	21	0.08	
21	23	NIL	
23	25	0.04	
25	27	0.02	
27	29	0.12	
29	31	NIL	

Monthly mean : 0.04

Maximum : 0.31

Beta-Radioactivity of Rainwater

Month JAN

Year 1973

Date of Sampling		Amount of Sample Water	Amount of Radioactivity	Remarks
Start	End	cm ³	pCi/cm ³	
07	08	21	NIL	Collecting period 24
10	11	42	NIL	hrs. from 0800 H.K. ST. Time to 0800
17	18	203	NIL	H.K. ST. Time
18	19	26	NIL	Approx.
19	20	826	0.03	
21	22	56	0.54	
22	23	620	NIL	

INTERNATIONAL ATOMIC ENERGY AGENCY
BULLETIN
OF
RADIOACTIVITY

NO. 1 FEBRUARY 1973

This bulletin gives the results of the routine observations of the gross beta-radioactivity of fall-out in Hong Kong. From October 1967 onwards, regular measurements of air-borne dust and rainfall samples collected near the earth's surface have been made by the Royal Observatory. The data from October 1967 inclusive and the analytical procedures and the results of calibration etc. have been published in H.O. Technical Notes No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

From April 1968 onwards is published monthly in this bulletin.

FEBRUARY 1973

The counter used for the beta counting consists of an air-wire Geiger-Müller counter, shielded in a lead chamber, a probe unit and an electronic scaler, Type N 530 T manufactured by Eico Electronics Ltd, England. A thick aluminium source (antimony trisulphide) is used for three days of every thousand seconds each day to check the stability of the counter. Readings are measured on the fourth day after the end of the collection period when the detector is reset. Decay and their daughter products will have decayed.

All samples are collected at the Meteorological Station, King's Park (22° 19' North, 114° 10' East), with the exception of rainfall samples which are obtained from the Royal Observatory (22° 18' North, 114° 10' East).

BULLETIN

BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG

FOR FEBRUARY 1973

This bulletin gives the results of the routine observations of the gross beta-radioactivity of fall-out in Hong Kong. From October 1961 onwards, regular measurements of the radioactivity of air-borne dust and rainfall samples collected near the earth's surface have been made by Royal Observatory. The data from October 1961 to March 1965 inclusive and the sampling procedures and the methods of calibration etc. have been published in R.O. Technical Notes No. 1 by P.C. Chin and No. 23 by R.F. Apps Data from April 1965 onwards is published monthly in this bulletin.

The counter used for the beta counting consists of an end window Geiger-muller counter, shielded in a lead chamber, a probe unit and an automatic scaler, Type N 530 G manufactured by Ekco Electronics Ltd. England. A thick standard source (potassium chloride) is counted for three sets of one thousand seconds each day to check the stability of the counter. Samples are measured on the fourth day after the end of the collection period when the natural radon, thoron and their daughter products will have decayed.

All samples are collected at the Meteorological Station, King's Park ($22^{\circ} 19'$ North, $114^{\circ} 10'$ East), with the exception of rainfall samples which are obtained from the Royal Observatory ($22^{\circ} 18'$ North, $114^{\circ} 10'$ East).

Beta-Radioactivity of Airborne Dust near the Earth's Surface

Month FEBRUARY

Year 1973

Location of Sampling Point: Lat $22^{\circ}19'$ North Long $114^{\circ}10'$ East

Time of Sampling						Amount of Radioactivity $\mu\text{Ci}/\text{m}^3$ of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Jan 31	09	55	01	10	00	NIL	
01	10	05	02	09	20	0.08	
02	09	25	03	09	10	0.09	
03	09	20	04	09	30	0.10	
04	09	40	05	09	30	0.26	
05	09	35	06	09	25	0.09	
06	09	30	07	09	30	NIL	
07	09	35	08	10	15	NIL	
08	10	20	09	09	30	NIL	
09	09	35	10	10	05	0.02	
10	10	10	11	09	15	0.26	
11	09	20	12	10	05	0.01	
12	10	10	13	09	30	NIL	
13	09	35	14	10	20	0.22	
14	10	25	15	09	15	0.28	
15	09	20	16	09	30	NIL	
16	09	35	17	09	55	0.17	
17	10	00	18	09	55	0.05	
18	10	00	19	09	00	0.21	
19	09	05	20	09	00	NIL	
20	09	10	21	09	50	NIL	
21	09	55	22	09	15	NIL	
22	09	20	23	10	30	0.32	
23	10	35	24	09	10	0.73	
24	09	15	25	09	40	NIL	
25	09	45	26	09	00	0.14	
26	09	05	27	09	40	0.06	
27	09	45	28	09	10	NIL	

Monthly mean : 0.11

Maximum : 0.73

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month FEBRUARY

Year 1973

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
31	02	0.07	Collecting period 48 hrs. from 0800 H.K. ST.
02	04	NIL	
04	06	0.02	Time to 0800 H.K. ST.
06	08	0.13	
08	10	NIL	Time Approx.
10	12	0.12	
12	14	0.11	
14	16	0.14	
16	18	NIL	
18	20	NIL	
20	22	NIL	
22	24	0.48	
24	26	0.08	
26	28	0.12	

Monthly mean : 0.09

Maximum : 0.48

Beta-Radioactivity of Rainwater

Month .. FEBRUARY Year .. 1973

Date of Sampling		Amount of Sample Water cm ³	Amount of Radioactivity pCi/cm ³	Remarks
Start	End			
19	20	119	NIL	Collecting period 24
22	23	184	0.14	
23	24	356	0.18	hrs. from 0800 H.K.
				ST. Time to 0800
				H.K. ST. Time Approx.

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

MARCH 1973

BULLETIN

OF

BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG

FOR MARCH 1973

This bulletin gives the results of the routine observations of the gross beta-radioactivity of fall-out in Hong Kong. From October 1961 onwards, regular measurements of the radioactivity of air-borne dust and rainfall samples collected near the earth's surface have been made by Royal Observatory. The data from October 1961 to March 1965 inclusive and the sampling procedures and the methods of calibration etc. have been published in R.O. Technical Notes No. 1 by P.C. Chin and No. 23 by R.F. Apps Data from April 1965 onwards is published monthly in this bulletin.

The counter used for the beta counting consists of an end window Geiger-muller counter, shielded in a lead chamber, a probe unit and an automatic scaler, Type N 530G manufactured by Ekco Electronics Ltd. England. A thick standard source (potassium chloride) is counted for three sets of one thousand seconds each day to check the stability of the counter. Samples are measured on the fourth day after the end of the collection period when the natural radon, thoron and their daughter products will have decayed.

All samples are collected at the Meteorological Station, King's Park ($22^{\circ} 19'$ North, $114^{\circ} 10'$ East), with the exception of rainfall samples which are obtained from the Royal Observatory ($22^{\circ} 18'$ North, $114^{\circ} 10'$ East).

Beta-Radioactivity of Airborne Dust near the Earth's Surface

Month MARCH

Year 1973

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Time of Sampling						Amount of Radioactivity pCi/m ³ of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Feb.28	09	15	01	09	55	0.12	
	01	10	02	09	05	NIL	
	02	09	03	09	30	0.02	
	03	09	04	10	00	0.03	
	04	10	05	09	45	0.03	
	05	09	06	09	30	0.23	
	06	09	07	09	45	0.11	
	07	09	08	09	55	NIL	
	08	10	09	10	00	NIL	
	09	10	10	09	20	0.20	
	10	09	11	09	30	NIL	
	11	09	12	09	30	0.06	
	12	09	13	10	00	NIL	
	13	10	14	10	25	0.14	
	14	10	15	09	30	0.05	
	15	09	16	09	30	NIL	
	16	09	17	09	10	0.58	
	17	09	18	09	00	0.28	
	18	09	19	09	35	NIL	
	19	09	20	09	15	NIL	
	20	09	21	09	55	NIL	
	21	10	22	10	15	NIL	
	22	10	23	09	30	NIL	
	23	09	24	09	50	0.04	
	24	09	25	09	45	0.11	
	25	09	26	09	30	0.13	
	26	09	27	09	20	0.32	
	27	09	28	09	50	0.33	
	28	10	29	09	05	0.04	
	29	09	30	10	00	0.14	
	30	10	31	09	35	0.08	

Monthly mean : 0.10

Maximum : 0.58

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month MARCH

Year 1973

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Date of Sampling		Amount of Radioactivity	Remarks
Start	End	mCi/Km ²	
Feb. 28	02	0.08	Collecting period 48
	02	0.12	hrs. from 0800 H.K. ST.
	04	0.10	Time to 0800 H.K. ST.
	06	0.03	Time Approx.
	08	NIL	
	10	NIL	
	12	0.10	
	14	0.06	
	16	0.03	
	18	NIL	
	20	0.08	
	22	NIL	
	24	0.27	
	26	NIL	
	28	0.10	

Monthly mean : 0.07

Maximum : 0.27

Beta-Radioactivity of Rainwater

Month **MARCH**

Year **1973**

Date of Sampling		Amount of Sample Water	Amount of Radioactivity	Remarks
Start	End	cm^3	pCi/cm^3	
24	25	360	NIL	Collecting period 24 hrs. from 0800 H.K. St. Time to 0800 H.K. St. time Approx.

BULLETIN

OF

REGA-R RADIOACTIVITY OF FALL-OUT IN HONG KONG

NO. APRIL 1973

The bulletin gives the results of the routine observations of

the gamma radioactivity of fall-out in Hong Kong, from October 1961

RADIOACTIVITY BULLETIN

onwards, regular measurements of the radioactivity of airborne dust and

rainfall samples collected near the earth's surface were taken at the Royal

ROYAL OBSERVATORY

Observatory. The data for the period from March 1965 inclusive and the

analytical procedures and the methods of calibration used have been published

HONG KONG

in H.K. Technical Notes No. 4 (1965) and No. 25 (1967). More data

from April 1965 onwards is published monthly in this bulletin.

APRIL 1973

The counter used for the beta counting facilities of an end

shielded liquid-scintillation counter, installed in a lead container, is now used

as an alpha counter, Type R 570 manufactured by the Electronics Unit

of the Royal Observatory (reference material is quoted for three

years of use). The counter is now used to check the efficiency of the counter.

Samples are measured on the fourth day after the end of the collection period

from the natural decay, those are their original activities will have decreased

all samples are collected at the Meteorological Service, King's

Point, 18° 28' North, 120° 10' East, and the analysis of rainfall samples

which are obtained from the Royal Observatory (22° 28' North, 114° 10' East).

Department of Agriculture, Fisheries and Conservation
 Environmental Protection Department
 Location of Sampling Point: Lat 22° 19' North Long 114° 10' East

Date of Sampling		Amount of Radioactivity	
Year	Month	Day	Hour
BULLETIN OF BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG FOR <u>APRIL 1973</u>			
1973	04	01	15
02	05	02	15
03	06	03	15
04	07	04	15
05	08	05	15
06	09	06	15
07	10	07	15
08	11	08	15
09	12	09	15
10	13	10	15
11	14	11	15
12	15	12	15
13	16	13	15
14	17	14	15
15	18	15	15
16	19	16	15
17	20	17	15
18	21	18	15
19	22	19	15
20	23	20	15
21	24	21	15
22	25	22	15
23	26	23	15
24	27	24	15
25	28	25	15
26	29	26	15
27	30	27	15
28	31	28	15

The bulletin gives the results of the routine observations of the gross beta-radioactivity of fall-out in Hong Kong. From October 1961 onwards, regular measurements of the radioactivity of air-borne dust and rainfall samples collected near the earth's surface have been made by Royal Observatory. The data from October 1961 to March 1965 inclusive and the sampling procedures and the methods of calibration etc. have been published in R.O. Technical Notes No. 1 by P.C. Chin and No. 23 by R.F. Apps Data from April 1965 onwards is published monthly in this bulletin.

The counter used for the beta counting consists of an end window Geiger-muller counter, shielded in a lead chamber, a probe unit and an automatic scaler, Type N 530G manufactured by Ekco Electronics Ltd. England. A thick standard source (potassium chloride) is counted for three sets of one thousand seconds each day to check the stability of the counter. Samples are measure on the fourth day after the end of the collection period when the natural radon, thoron and their daughter products will have decayed.

All samples are collected at the Meteorological Station, King's Park (22° 19' North, 114° 10' East), with the exception of rainfall samples which are obtained from the Royal Observatory (22° 18' North, 114° 10' East).

Beta-Radioactivity of Airborne Dust near the Earth's Surface

Month
APRIL

Year1973.....

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Time of Sampling						Amount of Radioactivity pCi/m ³ of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Mar.31	09	40	01	09	15	0.02	
01	09	20	02	09	55	NIL	
02	10	10	03	09	15	NIL	
03	09	20	04	09	10	NIL	
04	09	15	05	09	10	0.04	
05	09	15	06	09	25	NIL	
06	09	30	07	09	05	0.07	
07	09	10	08	10	00	0.04	
08	10	05	09	09	40	NIL	
09	09	45	10	09	55	NIL	
10	10	00	11	09	55	NIL	
11	10	00	12	09	55	NIL	
12	10	00	13	09	30	NIL	
13	09	35	14	09	00	0.03	
14	09	05	15	09	00	NIL	
15	09	05	16	09	10	0.14	
16	09	15	17	09	15	0.28	
17	09	20	18	10	25	NIL	
18	10	30	19	10	00	NIL	
19	10	05	20	09	55	0.13	
20	10	00	21	09	50	NIL	
21	09	55	22	09	30	0.32	
22	09	35	23	10	05	NIL	
23	10	05	24	09	15	0.04	
24	09	20	25	09	20	NIL	
25	09	30	26	10	50	0.11	
26	10	55	27	10	05	NIL	
27	10	10	28	10	30	0.05	
28	10	35	29	10	00	0.23	
29	10	05	30	10	00	NIL	

Monthly mean : 0.05

Maximum : 0.32

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month APRIL Year 1973

Location of Sampling Point: Lat $22^{\circ}19'$ North Long $114^{\circ}10'$ East

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
30	01	0.05	Collecting period 48 hrs. from 0800 H.K. ST.
01	03	NIL	
03	05	NIL	Time to 0800 H.K. ST.
05	07	NIL	Time Approx.
07	09	0.19	
09	11	NIL	
11	13	0.02	
13	15	0.08	
15	17	0.24	
17	19	0.35	
19	21	NIL	
21	23	NIL	
23	25	NIL	
25	27	NIL	
27	29	0.07	

Monthly mean : 0.07

Maximum : 0.35

BULLETIN
OF
RADIOACTIVITY OF FALL-OUT IN HONG KONG
FOR MAY 1973

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

MAY 1973

The counter used for the beta counting consists of an end window-Geiger-müller counter, divided in a lead shield, a probe unit and an electronic amplifier, Type 5350 manufactured by Nal Electronics Ltd, England. A thick strontium source (potassium chloride) is mounted for three days of one thousand counts each day to check the stability of the counter. Samples are measured on the fourth day after the end of the collection period when the original paper, thoron and their daughter products are removed.

All samples are collected at the Meteorological Station, King's Park (22° 19' North, 114° 10' East), with the exception of rainfall samples which are obtained from the Royal Observatory (22° 28' North, 114° 10' East).

BULLETIN

OF

BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG

FOR MAY 1973

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Beta-Radioactivity of Airborne Dust near the Earth's Surface

Month MAY

Year 1973

Location of Sampling Point: Lat 22°19' North Long 114°10' East

Time of Sampling						Amount of Radioactivity pCi/m ³ of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
			01				
01	10	05	02	09	35	0.02	
02	09	40	03	09	15	NIL	
03	09	20	04	08	50	0.17	
04	09	00	05	09	40	NIL	
05	09	45	06	10	50	0.18	
06	10	55	07	10	10	0.09	
07	10	15	08	10	30	0.04	
08	10	35	09	10	00	0.06	
09	10	05	10	09	10	NIL	
10	09	15	11	09	55	0.06	
11	10	00	12	10	50	NIL	
12	10	55	13	10	40	0.30	
13	10	50	14	10	00	0.21	
14	10	05	15	09	30	0.07	
15	09	35	16	09	50	0.09	
16	09	55	17	09	15	0.36	
17	09	20	18	09	55	NIL	
18	10	00	19	10	10	0.16	
19	10	15	20	10	10	0.26	
20	10	15	21	10	20	0.20	
21	10	25	22	10	50	0.37	
22	11	00	23	09	15	0.51	
23	09	20	24	09	45	NIL	
24	09	50	25	10	00	NIL	
25	10	05	26	10	00	NIL	
26	10	05	27	10	20	0.33	
27	10	25	28	09	15	0.27	
28	09	20	29	10	00	NIL	
29	10	05	30	10	10	0.26	
30	10	15	31	09	55	NIL	
31	10	00	01	09	40	0.19	

Monthly mean : 0.13

Maximum : 0.51

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month MAY

Year 1973

Location of Sampling Point: Lat 22° 19' North Long 114° 10' East

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
010900	030900	NIL	Collecting period 48 hrs. from 0800 H.K. ST. Time to 0800 H.K. ST. Time Approx.
030900	050900	0.07	
050900	070900	0.09	
070900	090900	0.14	
090900	110900	NIL	
110900	130900	0.21	
130900	150900	NIL	
150900	170900	0.38	
170900	190900	0.27	
190900	210900	0.23	
210900	230900	0.33	
230900	250900	0.05	
250900	270900	0.19	
270900	290900	NIL	
290900	310900	0.03	

Monthly mean : 0.13

Maximum : 0.38

Month: JUN Year: 1973

Location of Sampling Point: 11th Floor, 11th - 12th

Month: JUN Year: 1973

Date	Start Hour	End Hour	Time of Sampling		Remarks
			Min.	Sec.	
31	01	02	01	00	
01	02	03	02	00	
02	03	04	03	00	
03	04	05	04	00	
04	05	06	05	00	
05	06	07	06	00	
06	07	08	07	00	
07	08	09	08	00	
08	09	10	09	00	
09	10	11	10	00	
10	11	12	11	00	
11	12	13	12	00	
12	13	14	13	00	
13	14	15	14	00	
14	15	16	15	00	
15	16	17	16	00	
16	17	18	17	00	
17	18	19	18	00	
18	19	20	19	00	
19	20	21	20	00	
20	21	22	21	00	
21	22	23	22	00	
22	23	24	23	00	
23	24	25	24	00	
24	25	26	25	00	
25	26	27	26	00	
26	27	28	27	00	
27	28	29	28	00	
28	29	30	29	00	
29	30	31	30	00	

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

JUN 73

Monthly Mean: 0.10
 Maximum: 0.42

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: JUNE

Year: 1973

Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks mBq
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	10	00	01	09	40	0.19	7.0
01	09	45	02	10	00	NIL	NIL
02	10	05	03	10	00	0.13	4.8
03	10	05	04	09	30	0.45	16.7
04	09	35	05	10	30	0.18	6.7
05	10	35	06	09	45	0.20	7.4
06	09	50	07	10	30	0.07	2.6
07	10	35	08	10	20	NIL	NIL
08	10	25	09	09	55	NIL	NIL
09	10	00	10	09	30	NIL	NIL
10	09	35	11	08	50	0.38	14.1
11	09	00	12	09	45	NIL	NIL
12	09	50	13	10	00	0.10	3.7
13	10	05	14	09	00	0.22	8.1
14	09	05	15	09	20	NIL	NIL
15	09	25	16	09	25	NIL	NIL
16	09	30	17	10	00	NIL	NIL
17	10	05	18	09	55	0.15	5.5
18	10	00	19	09	00	0.06	2.2
19	09	05	20	09	45	0.35	12.9
20	09	50	21	08	50	NIL	NIL
21	09	00	22	10	00	NIL	NIL
22	10	05	23	09	50	NIL	NIL
23	09	55	24	09	55	0.21	7.8
24	10	00	25	10	10	NIL	NIL
25	10	15	26	10	10	0.16	5.9
26	10	15	27	10	10	NIL	NIL
27	10	15	28	09	15	NIL	NIL
28	09	20	29	08	00	NIL	NIL
29	08	05	30	07	00	0.11	4.1
30			31				
Monthly Mean:-						0.10	3.7
Maximum :-						0.45	16.7

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month: JUNE Year: 1973

Location of Sampling Point:- Lat. 22° 19' N.

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
31	02	NIL	Collecting period. 48 hours from 0800 H.K. ST. Time to 0800 H.K. St. Time approx.
02	04	0.49	
04	06	0.26	
06	08	0.06	
08	10	0.13	
10	12	0.02	
12	14	0.31	
14	16	0.07	
16	18	0.19	
18	20	0.27	
20	22	0.02	
22	24	0.02	
24	26	NIL	
26	28	0.10	
28	30	0.22	
Monthly Mean:-		0.14	
Maximum:-		0.49	

Beta-Radiactivity of Airborne Dust Near the Earth's Surface

Month: July Year: 1973

Location of Sampling Point: 10° 10' N, 117° 10' E

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

JUL 73

Date	Hour	Min.	Rate		Remarks
			Hour	Min.	
30	07	10	01	30	N.L.
01	08	35	02	35	
02	09	00	03	00	
03	10	00	04	00	
04	11	00	05	00	
05	12	00	06	00	
06	01	00	07	00	
07	02	00	08	00	
08	03	00	09	00	
09	04	00	10	00	
10	05	00	11	00	
11	06	00	12	00	
12	07	00	13	00	
13	08	00	14	00	
14	09	00	15	00	
15	10	00	16	00	
16	11	00	17	00	
17	12	00	18	00	
18	01	00	19	00	
19	02	00	20	00	
20	03	00	21	00	
21	04	00	22	00	
22	05	00	23	00	
23	06	00	24	00	
24	07	00	25	00	
25	08	00	26	00	
26	09	00	27	00	
27	10	00	28	00	
28	11	00	29	00	
29	12	00	30	00	
30	01	00	31	00	
Monthly Mean: 0.17					
Maximum: 0.86					

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: JulyYear: 1973Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks m Bq
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
30	07	10	01	09	30	NIL	NIL
01	09	35	02	09	45	0.24	8.9
02	09	50	03	09	30	0.43	15.9
03	09	35	04	09	25	0.86	31.8
04	09	30	05	09	15	0.32	11.8
05	09	20	06	09	15	NIL	NIL
06	09	20	07	09	35	NIL	NIL
07	09	40	08	09	30	0.12	4.4
08	09	35	09	09	20	NIL	NIL
09	09	25	10	09	20	0.09	3.3
10	09	25	11	09	45	0.09	3.3
11	09	50	12	10	25	0.08	3.0
12	10	30	13	09	45	0.03	1.1
13	09	50	14	09	10	0.33	12.2
14	09	15	15	08	45	0.42	15.5
15	08	50	16	10	10	NIL	NIL
16	10	15	17	10	30		due to Sample w/s tapbeen
17	10	35	18	10	00	NIL	NIL
18	10	10	19	10	00	0.15	5.5
19	10	00	20	09	25	0.55	20.3
20	09	30	21	09	55	0.31	11.5
21	10	00	22	10	15	NIL	NIL
22	10	20	23	09	30	0.52	19.2
23	09	35	24	09	30	0.06	2.2
24	09	35	25	10	20	NIL	NIL
25	10	25	26	10	00	NIL	NIL
26	10	05	27	09	50	NIL	NIL
27	09	55	28	08	45	NIL	NIL
28	08	55	29	10	20	0.03	1.1
29	10	25	30	09	50	0.11	4.1
30	09	55	31	10	10	0.24	8.9
Monthly Mean:-						0.17	6.3
Maximum :-						0.86	31.8

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : JULY Year : 1973

Location of Sampling Point :- Lat. 22° 19' N.

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
JUN 30 0900	JUL 02 0900	0.27	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
JUL 02 0900	04	0.35	
04	06	5.86	
06	08	0.21	
08	10	0.31	
10	12	0.33	
12	14	0.57	
14	16	1.12	
16	18	NIL	
18	20	0.39	
20	22	NIL	
22	24	NIL	
24	26	NIL	
26	28	NIL	
28	30	0.40	
Monthly Mean :-		0.65	
Maximum :-		5.86	

Month: AUGUST Year: 1973

Lat. 22° 15' N

Location of Sampling Point: 1000 ft (300 m) above ground level

Date	Hour	Min	Date	Hour	Min	Time of Sampling		Remarks
						Start	End	
31	15	01	01	15	01			
01	15	02	02	15	02			
02	15	03	03	15	03			
03	15	04	04	15	04			
04	15	05	05	15	05			
05	15	06	06	15	06			
06	15	07	07	15	07			
07	15	08	08	15	08			
08	15	09	09	15	09			
09	15	10	10	15	10			
10	15	11	11	15	11			
11	15	12	12	15	12			
12	15	13	13	15	13			
13	15	14	14	15	14			
14	15	15	15	15	15			
15	15	16	16	15	16			
16	15	17	17	15	17			
17	15	18	18	15	18			
18	15	19	19	15	19			
19	15	20	20	15	20			
20	15	21	21	15	21			
21	15	22	22	15	22			
22	15	23	23	15	23			
23	15	24	24	15	24			
24	15	25	25	15	25			
25	15	26	26	15	26			
26	15	27	27	15	27			
27	15	28	28	15	28			
28	15	29	29	15	29			
29	15	30	30	15	30			
30	15	31	31	15	31			
						Monthly Mean	0.04	
						Maximum	0.24	

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

AUG 73

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: AUGUST

Year: 1973

Location of Sampling Point:-

Lat. 22° 19' N.

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks m Bq
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	10	15	01	09	30	0.17	6.3
01	09	35	02	09	00	NIL	NIL
02	09	05	03	10	00	NIL	NIL
03	10	00	04	10	00	0.17	6.3
04	10	05	05	09	20	0.24	8.9
05	09	25	06	09	00	0.11	4.1
06	09	05	07	09	50	0.02	0.7
07	09	55	08	09	55	NIL	NIL
08	10	00	09	09	35	NIL	NIL
09	09	40	10	10	00	NIL	NIL
10	10	15	11	09	00	NIL	NIL
11	09	05	12	10	00	NIL	NIL
12	10	05	13	10	55	NIL	NIL
13	11	00	14	09	30	NIL	NIL
14	09	35	15	10	45	NIL	NIL
15	10	50	16	10	10	NIL	NIL
16	10	15	17	10	00	NIL	NIL
17	10	05	18	10	10	NIL	NIL
18	10	15	19	10	20	0.01	0.4
19	10	25	20	09	55	NIL	NIL
20	10	00	21	09	45	0.07	2.6
21	09	50	22	09	30	NIL	NIL
22	09	35	23	09	05	0.12	4.4
23	09	10	24	09	45	0.23	8.5
24	09	50	25	10	05	NIL	NIL
25	10	10	26	10	00	0.17	6.3
26	10	05	27	10	20	NIL	NIL
27	10	25	28	09	45	NIL	NIL
28	09	50	29	10	00	0.04	1.5
29	10	05	30	09	15	NIL	NIL
30	09	20	31	09	00	NIL	NIL
Monthly Mean:-						0.04	1.5
Maximum :-						0.24	8.9

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month: AUGUST

Year: 1973

Location of Sampling Point:- Lat. 22° 19' N.

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
01	03	NIL	Collecting period. 48 hours from 0800 H.K. ST. Time to 0800 H.K. St. Time approx.
03	05	0.28	
05	07	0.17	
07	09	NIL	
09	11	NIL	
11	13	NIL	
13	15	NIL	
15	17	0.01	
17	19	0.09	
19	21	NIL	
21	23	0.34	
23	25	NIL	
25	27	NIL	
27	29	NIL	
29	31	NIL	
Monthly Mean:-		0.06	
Maximum:-		0.34	

Beta-Radioactivity of Rainwater

Month: AUGUST

Year: 1973

Date of Sampling		Amount of water Sample cm ³	Amount of Radioactivity pCi/cm ³	Remarks
Start	End			
02	03	50	0.14	Collecting period 24 hours from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
03	04	110	NIL	
05	06	66	NIL	
06	07	975	NIL	
08	09	110	NIL	
09	11	4880	NIL	
11	13	2900	NIL	
13	14	81	NIL	
16	17	590	NIL	
17	18	128	0.12	
18	19	760	NIL	
20	21	3640	NIL	
21	22	4600	NIL	
23	25	1020	NIL	
25	27	1092	NIL	
27	28	200	NIL	
28	29	994	0.01	
29	30	1285	NIL	
30	31	1330	NIL	

MAX 0.14

MEAN 0.01

Month: September Year: 1973

Location: Royal Observatory, Hong Kong
Lat. 22° 19' N Long. 114° 10' E

Date	Hour	Start & End	Time of Sampling		Radioactivity	PCMA of air
			Min.	Sec.		
29	02	02	01	02	0.10	0.10
01	10	10	02	01	0.10	0.10
02	10	10	02	01	0.10	0.10
03	10	10	02	01	0.10	0.10
04	10	10	02	01	0.10	0.10
05	10	10	02	01	0.10	0.10
06	10	10	02	01	0.10	0.10
07	10	10	02	01	0.10	0.10
08	10	10	02	01	0.10	0.10
09	10	10	02	01	0.10	0.10
10	10	10	02	01	0.10	0.10
11	10	10	02	01	0.10	0.10
12	10	10	02	01	0.10	0.10
13	10	10	02	01	0.10	0.10
14	10	10	02	01	0.10	0.10
15	10	10	02	01	0.10	0.10
16	10	10	02	01	0.10	0.10
17	10	10	02	01	0.10	0.10
18	10	10	02	01	0.10	0.10
19	10	10	02	01	0.10	0.10
20	10	10	02	01	0.10	0.10
21	10	10	02	01	0.10	0.10
22	10	10	02	01	0.10	0.10
23	10	10	02	01	0.10	0.10
24	10	10	02	01	0.10	0.10
25	10	10	02	01	0.10	0.10
26	10	10	02	01	0.10	0.10
27	10	10	02	01	0.10	0.10
28	10	10	02	01	0.10	0.10
29	10	10	02	01	0.10	0.10
30	10	10	02	01	0.10	0.10

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

SEP 73

Monthly Mean: 0.14

Maximum: 0.20

2.5
2.7

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: September

Year: 1973

Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	09	05	01	10	10	0.10	3-7
01	10	10	02	10	10	NIL	NIL
02	10	05	03	10	00	NIL	NIL
03	10	05	04	09	55	NIL	NIL
04	10	00	05	10	05	0.05	1.9
05	10	10	06	09	45	0.41	15.1
06	09	50	07	09	45	NIL	NIL
07	09	50	08	09	00	0.16	5.9
08	09	10	09	10	00	0.56	20.7
09	10	05	10	09	20	NIL	NIL
10	09	25	11	09	35	0.29	10.7
11	09	40	12	10	00	0.20	7.4
12	10	05	13	10	00	0.21	7.8
13	10	05	14	09	50	0.24	8.9
14	09	55	15	10	30	0.02	0.7
15	10	35	16	10	15	NIL	NIL
16	10	20	17	08	00	0.10	3.7
17	08	10	18	09	30	NIL	NIL
18	09	35	19	09	35	0.07	2.6
19	09	40	20	09	20	0.19	7.0
20	09	25	21	10	00	0.18	6.7
21	10	05	22	09	15	0.17	6.3
22	09	20	23	09	45	NIL	NIL
23	09	50	24	09	25	0.06	2.2
24	09	30	25	10	10	0.25	9.3
25	10	15	26	09	20	0.15	5.5
26	09	25	27	09	45	0.14	5.2
27	09	50	28	09	55	0.32	11.8
28	09	55	29	09	20	0.25	9.3
29	09	25	30	09	45	0.18	6.7
30			31				
Monthly Mean:-						0.14	5.2
Maximum :-						0.56	20.7

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month: September

Year: 1973

Location of Sampling Point:- Lat. 22° 19' N.

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
AUG 31 0900	SEP 02 0900	0.07	Collecting period 48 hours from 0800 H.K. ST. Time to 0800 H.K. St. Time approx.
SEP 02 0900	" 04 0900	0.14	
" 04 0900	" 06 0900	0.15	
" 06 0900	" 08 0900	0.19	
" 08 0900	" 10 0900	NIL	
" 10 0900	" 12 0900	0.32	
" 12 0900	" 14 0900	0.34	
" 14 0900	" 16 0900	NIL	
" 16 0900	" 18 0900	NIL	
" 18 0900	" 20 0900	0.15	
" 20 0900	" 22 0900	0.19	
" 22 0900	" 24 0900	NIL	
" 24 0900	" 26 0900	NIL	
" 26 0900	" 28 0900	0.24	
" 28 0900	" 30 0900	0.02	
Monthly Mean:-		0.12	
Maximum:-		0.34	

Beta-Radioactivity of Rainwater

Month: SEPTEMBER Year: 1973

Date of Sampling		Amount of water Sample cm ³	Amount of Radioactivity pCi/cm ³	Remarks	
Start	End				
AUG 31 0800	SEP 01 0800	1171	0.01	Collecting period 24 hours from 0800 H.K. St. Time to 48 0800 H.K. St. Time approx. 48 hrs	
SEP 02 0800	03 0800	4006	NIL		
05 0800	07 0800	356	0.11		
13 0800	15 0800	1900	0.02		
17 0800	18 0800	224	NIL		
18 0800	19 0800	2202	0.02		
19 0800	20 0800	1470	0.02		
20 0800	21 0800	920	NIL		
21 0800	22 0800	1055	0.01		
25 0800	26 0800	21	3.43		
27 0800	28 0800	75	0.85		
28 0800	29 0800	95	NIL		
29 0800	30 0800	265	NIL		

Monthly Mean: -	0.14	5-2
Maximum	0.56	20-7

Month: OCTOBER Year: 1973

Location: Royal Observatory, Hong Kong
 Lat. 22° 19' N
 Long. 114° 10' E

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

OCT 73

Date	Time of Sampling		Radioactivity PCMA ₂ of air m.p.c.	Amount Filtering medium to which radioactivity
	Hour	Min.		
30	07	00		
31	07	00		
01	07	00		
02	07	00		
03	07	00		
04	07	00		
05	07	00		
06	07	00		
07	07	00		
08	07	00		
09	07	00		
10	07	00		
11	07	00		
12	07	00		
13	07	00		
14	07	00		
15	07	00		
16	07	00		
17	07	00		
18	07	00		
19	07	00		
20	07	00		
21	07	00		
22	07	00		
23	07	00		
24	07	00		
25	07	00		
26	07	00		
27	07	00		
28	07	00		
29	07	00		
30	07	00		
31	07	00		
Monthly Mean: -				0.19
Maximum: -				0.83

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: OCTOBER

Year: 1973

Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks m Bq
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
30	09	50	01	09	40	0.62	22.9
01	09	45	02	09	00	NIL	NIL
02	09	05	03	09	50	NIL	NIL
03	09	55	04	10	25	0.02	0.7
04	10	30	05	08	20	0.44	16.3
05	08	25	06	09	25	0.24	8.9
06	09	30	07	09	20	0.08	3.0
07	09	25	08	09	55	NIL	NIL
08	10	00	09	10	00	0.26	9.6
09	10	05	10	09	10	0.06	2.2
10	09	10	11	09	30	0.25	9.3
11	09	35	12	10	00	0.45	16.7
12	10	05	13	09	50	NIL	NIL
13	09	55	14	08	50	0.83	30.7
14	09	00	15	09	25	0.24	8.9
15	09	30	16	09	55	0.37	13.7
16	10	00	17	09	55	NIL	NIL
17	10	00	18	10	00	0.34	12.6
18	10	05	19	10	00	0.02	0.7
19	10	05	20	10	10	NIL	NIL
20	10	05	21	09	15	0.02	0.7
21	09	20	22	09	45	NIL	NIL
22	09	50	23	09	50	NIL	NIL
23	09	55	24	08	40	0.16	5.9
24	08	45	25	08	50	NIL	NIL
25	08	55	26	09	00	0.54	20.0
26	09	05	27	09	30	0.28	10.4
27	09	35	28	09	35	0.19	7.0
28	09	40	29	09	30	0.35	12.9
29	09	35	30	09	00	NIL	NIL
30	09	05	31	09	15	NIL	NIL
Monthly Mean:-						0.19	7.0
Maximum :-						0.83	30.7

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month: OCTOBER

Year: 1973

Location of Sampling Point:- Lat. 22° 19' N.

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
30	02	NIL	Collecting period 48 hours from 0800 H.K. ST. Time to 0800 H.K. St. Time approx.
02	04	0.44	
04	06	0.20	
06	08	0.02	
08	10	0.27	
10	12	0.18	
12	14	0.27	
14	16	0.29	
16	18	0.05	
18	20	NIL	
20	22	NIL	
22	24	0.14	
24	26	0.48	
26	28	0.23	
28	30	0.09	
30			
Monthly Mean:-		0.18	
Maximum:-		0.48	

Month: NOV Year: 1973

(Low Pass Filter) Collected Filter Radioactivity (cpm) at
 Location of Sampling Point: 11th NOV E. Station Year: 1973

Date	Start Hour	End Hour	Time of Sampling		Remarks
			Start Date	End Date	
31	00	00	00	00	
01	00	00	00	00	
02	00	00	00	00	
03	00	00	00	00	
04	00	00	00	00	
05	00	00	00	00	
06	00	00	00	00	
07	00	00	00	00	
08	00	00	00	00	
09	00	00	00	00	
10	00	00	00	00	
11	00	00	00	00	
12	00	00	00	00	
13	00	00	00	00	
14	00	00	00	00	
15	00	00	00	00	
16	00	00	00	00	
17	00	00	00	00	
18	00	00	00	00	
19	00	00	00	00	
20	00	00	00	00	
21	00	00	00	00	
22	00	00	00	00	
23	00	00	00	00	
24	00	00	00	00	
25	00	00	00	00	
26	00	00	00	00	
27	00	00	00	00	
28	00	00	00	00	
29	00	00	00	00	
30	00	00	00	00	

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

NOV 73

Monthly Mean: 0.19

Maximum: 0.28

7.0
5.2

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: NOV

Year: 1973

Location of Sampling Point:-

Lat. 22° 19' N.

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks m Bq
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	09	20	01	09	20	0.19	7.0
01	09	25	02	09	25	0.19	7.0
02	09	30	03	09	30	0.43	15.9
03	09	35	04	08	50	NIL	NIL
04	08	55	05	09	00	0.58	21.5
05	09	05	06	09	45	NIL	NIL
06	09	50	07	09	15	0.54	20.0
07	09	20	08	09	40	0.22	8.1
08	09	45	09	09	00	NIL	NIL
09	09	05	10	09	50	0.21	7.8
10	09	55	11	09	05	0.30	11.1
11	09	10	12	10	30	0.36	13.3
12	10	35	13	10	00	0.39	14.4
13	10	05	14	09	00	0.21	7.8
14	09	05	15	09	55	NIL	NIL
15	10	00	16	09	15	0.47	17.4
16	09	20	17	09	40	NIL	NIL
17	09	45	18	09	00	0.44	16.3
18	09	05	19	09	30	0.21	7.8
19	09	35	20	09	05	NIL	NIL
20	09	10	21	10	00	0.07	2.6
21	10	05	22	10	20	0.07	2.6
22	10	25	23	08	30	NIL	NIL
23	08	35	24	10	10	NIL	NIL
24	10	15	25	09	00	NIL	NIL
25	09	05	26	09	35	NIL	NIL
26	09	40	27	09	30	0.52	19.2
27	09	35	28	09	25	0.17	6.3
28	09	30	29	10	15	0.11	4.1
29	10	35	30	10	00	NIL	NIL
30			31				
Monthly Mean:-						0.19	7.0
Maximum :-						0.58	21.5

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month: NOV

Year: 1973

Location of Sampling Point:- Lat. 22° 19' N.

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km ²	Remarks
Start	End		
OCT 300900	NOV 010900	NIL	Collecting period. 48 hours from 0800 H.K. ST. Time to 0800 H.K. St. Time approx.
NOV 010900	NOV 030900	NIL	
" 030900	" 050900	0.27	
" 050900	" 070900	0.27	
" 070900	" 090900	NIL	
" 090900	" 110900	0.34	
" 110900	" 130900	0.20	
" 130900	" 150900	0.01	
" 150900	" 170900	0.09	
" 170900	" 190900	0.05	
" 190900	" 210900	0.10	
" 210900	" 230900	NIL	
" 230900	" 250900	NIL	
" 250900	" 270900	0.21	
" 270900	" 290900	NIL	
Monthly Mean:-		0.10	
Maximum:-		0.34	

Beta-Radioactivity of Rainwater

Month: NOV

Year: 1973

Date of Sampling		Amount of water Sample cm ³	Amount of Radioactivity pCi/cm ³	Remarks
Start	End			
NOV 28 0800	NOV 29 0800	232	0.30	Collecting period 24 hours from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
NOV 29 0800	NOV 30 0800	22	NIL	

Monthly Mean: 0.19
 Standard Deviation: 0.58
 Range: 7.0
 2.15

3-011/019 - (1) KONG

DEPARTMENT OF AIR FORCE POST OFFICE

Year	Month	Day	Time of Day	Remarks	Count
1973	12	01	10:00		0.0
1973	12	02	10:00		0.0
1973	12	03	10:00		0.0
1973	12	04	10:00		0.0
1973	12	05	10:00		0.0
1973	12	06	10:00		0.0
1973	12	07	10:00		0.0
1973	12	08	10:00		0.0
1973	12	09	10:00		0.0
1973	12	10	10:00		0.0
1973	12	11	10:00		0.0
1973	12	12	10:00		0.0
1973	12	13	10:00		0.0
1973	12	14	10:00		0.0
1973	12	15	10:00		0.0
1973	12	16	10:00		0.0
1973	12	17	10:00		0.0
1973	12	18	10:00		0.0
1973	12	19	10:00		0.0
1973	12	20	10:00		0.0
1973	12	21	10:00		0.0
1973	12	22	10:00		0.0
1973	12	23	10:00		0.0
1973	12	24	10:00		0.0
1973	12	25	10:00		0.0
1973	12	26	10:00		0.0
1973	12	27	10:00		0.0
1973	12	28	10:00		0.0
1973	12	29	10:00		0.0
1973	12	30	10:00		0.0

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

DEC 73

Monthly Mean:-

Maximum :-

Beta-Radioactivity of Airborne Dust Near the Earth's Surface

Month: Dec.

Year: 1973

Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m ³ of air	Remarks m Bq	
Start			End					
Date	Hour	Min.	Date	Hour	Min.			
30	10	05	01	09	50	0.33	12.2	
01	09	55	02	10	00	0.33	12.2	
02	10	05	03	09	00	NIL	NIL	
03	09	05	04	10	00	0.33	12.2	
04	10	05	05	09	35	NIL	NIL	
05	09	40	06	09	00	0.04	1.5	
06	09	05	07	09	15	0.18	6.7	
07	09	20	08	10	15	0.13	4.8	
08	10	20	09	09	15	0.04	1.5	
09	09	20	10	10	00	0.20	7.4	
10	10	05	11	09	10	NIL	NIL	
11	09	15	12	09	50	0.10	3.7	
12	09	15	13	09	45	0.27	10.0	
13	09	10	14	09	45	NIL	NIL	
14	09	50	15	09	45	NIL	NIL	
15	09	50	16	09	25	0.01	0.4	
16	09	30	17	09	40	0.32	11.8	
17	09	50	18	09	30	NIL	NIL	
18	09	35	19	10	00	NIL	NIL	
19	10	05	20	09	40	NIL	NIL	
20	09	45	21	09	10	0.22	8.1	
21	09	15	22	09	40	NIL	NIL	
22	09	45	23	10	35	NIL	NIL	
23	10	40	24	09	15	NIL	NIL	
24	09	20	25	09	15	NIL	NIL	
25	09	20	26	09	25	NIL	NIL	
26	09	30	27	09	50	NIL	NIL	
27	09	55	28	09	55	NIL	NIL	
28	10	00	29	09	45	0.23	8.5	
29	09	10	30	09	50	NIL	NIL	
30	09	55	31	10	00	0.15	5.5	
Monthly Mean:-						0.33	0.09	3.3
Maximum :-						0.33		12.2

RADIOACTIVITY MEASUREMENT OF TOTAL DEPOSITION (DRY & WET) ON EARTH'S SURFACE

FACTOR (T) = 5.058×10^{-3}

Sample No. T/T _w /T _m	Time of sampling			Data on sampling		
	Start MM DD HH MM	End MM DD HH MM	Duration {hrs.} days	Rec'ving area m ²	Total β-activity μuc	Activity mCi/km ²
T2132	Nov 27 0700	Dec 01 0700	48 hr	0.1977	NULL	NULL
T2133	Dec 01 0700	~ 03 0700	-	-	14	0.07
T2134	- 03 0700	~ 05 0700	"	"	NULL	NULL
T2135	- 05 0700	~ 07 0700	"	"	29	0.15
T2136	- 07 0700	~ 09 0700	"	"	44	0.22
T2137	- 09 0700	~ 11 0700	"	"	NULL	NULL
T2138	11 0700	13 0700	"	"	49	0.25
T2139	13 0700	15 0700	"	"	22	0.11
T2140	15 0700	17 0700	"	"	54	0.27
T2141	17 0700	19 0700	"	"	NULL	NULL
T2142	19 0700	21 0700	"	"	NULL	NULL
T2143	21 0700	23 0700	"	"	NULL	NULL
T2144	23 0700	25 0700	"	"	NULL	NULL
T2145	25 0700	27 0700	"	"	NULL	NULL
T2146	27 0700	29 0700	"	"	85	0.08
T2147	29 0700	31 0700	"	"	NULL	NULL