

Radioactivity Bulletin, L.O.H.K.  
1971-75

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# RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

JAN 1971

BULLETIN  
OF  
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG  
FOR JANUARY 1971

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.

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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..... January .....

Year..... 1971 .....

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
31	10	15	01	09	30	0.12	
01	09	35	02	09	30	0.09	
02	09	35	03	09	40	0.09	
03	09	45	04	09	30	0.30	
04	09	40	05	09	10	0.37	
05	09	15	06	09	40	0.46	
06	09	45	07	09	00	0.31	
07	09	05	08	09	55	0.40	
08	10	00	09	09	35	0.43	
09	09	40	10	09	30	0.12	
10	09	35	11	09	25	0.37	
11	09	30	12	09	12	Nil	
12	09	20	13	09	30	0.37	
13	09	40	14	10	20	0.31	
14	10	25	15	09	50	Nil	
15	09	55	16	09	00	0.25	
16	09	05	17	09	50	0.24	
17	09	55	18	09	55	0.20	
18	10	00	19	09	35	0.41	
19	09	40	20	09	00	0.25	
20	09	05	21	10	00	0.09	
21	10	05	22	09	20	0.24	
22	09	30	23	10	10	0.17	
23	10	15	24	09	50	0.18	
24	09	55	25	09	00	Nil	
25	09	05	26	09	15	Nil	
26	09	20	27	09	55	0.27	
27	10	00	28	10	25	0.12	
28	10	30	29	10	15	0.12	
29	10	20	30	09	15	0.23	
30	09	20	31	09	50	0.18	

Monthly mean 0.22

Maximum 0.46

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month.....January..... Year.....1971.....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
31	02	0.14	Collecting period 48 hours from 0800 H.K.
02	04	0.25	
04	06	0.28	St. Time to 0800 H.K.St.Time approx.
06	08	0.27	
08	10	0.19	
10	12	0.36	
12	14	0.12	
14	16	0.17	
16	18	0.26	
18	20	0.13	
20	22	0.23	
22	24	0.27	
24	26	Nil	
26	28	0.03	
28	30	0.50	
30	01	Nil	

Monthly mean 0.20

Maximum 0.50

Beta-Radioactivity of Rainwater

Month.....January..... Year.....1971.....

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
30	31	3.2	0.18	Collecting period 24 Hrs. from 0800 H.K.St. Time to 0800 H.K.St. Time approx.

ROYAL OBSERVATORY

HONG KONG

FEB 1971

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

FEB 1971

BULLETIN  
OF  
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG  
FOR FEBRUARY 1971

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

Month.....February.....

Year.....1971.....

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
31	10	10	01	09	20	0.22	* Air Sampling equipment unserviceable.
01	09	25	02	09	00	Nil	
*02	-	-	-	-	-	-	
03	10	30	04	09	00	0.04	
04	09	05	05	09	50	0.02	
05	16	00	06	07	30	0.25	
*06	-	-	-	-	-	-	
*07	-	-	-	-	-	-	
08	15	45	09	09	20	0.08	
09	09	25	10	09	20	0.03	
10	09	25	11	09	25	0.30	
11	09	30	12	10	05	0.12	
12	10	10	13	09	55	Nil	
13	10	00	14	09	55	Nil	
14	10	00	15	09	35	Nil	
15	09	40	16	09	25	Nil	
16	09	30	17	09	30	0.25	
17	09	40	18	09	35	0.13	
18	09	40	19	09	15	0.27	
19	09	20	20	09	20	0.25	
20	09	25	21	09	55	0.61	
21	10	00	22	09	55	0.19	
22	10	00	23	10	00	0.21	
23	10	05	24	10	45	Nil	
24	10	50	25	09	30	0.29	
25	09	40	26	10	00	0.22	
*26	-	-	-	-	-	-	
*27	-	-	-	-	-	-	
28	09	05	01	09	10	0.07	

Monthly mean 0.15

Maximum 0.61



Beta-Radioactivity of Total Deposition (Dry and Wet)

Month...February..... Year....1971.....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
30	01	Nil	Collecting period 48 Hrs. from 0800 H.K.St. Time to 0800 H.K. St. Time approx.
01	03	0.11	
03	05	Nil	
05	07	0.17	
07	09	0.12	
09	11	0.16	
11	13	0.23	
13	15	Nil	
15	17	0.17	
17	19	Nil	
19	21	0.32	
21	23	0.15	
23	25	0.40	
25	27	0.09	
27	01	0.07	

Monthly mean      0.13  
Maximum            0.40

Beta-Radioactivity of Rainwater

Month...February

Year...1971

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
19	20	74	Nil	Collecting period 24 Hrs. from 0800 H.K.St. Time to 0800 H.K. St. Time approx.
26	27	280	0.06	

ROYAL OBSERVATORY

HONG KONG

MAR 1971

# RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

MAR 1971

BULLETIN

OF

BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG

FOR MARCH 1971

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.

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

Month..... March .....

Year..... 1971 .....

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
FEB.			MAR.				
28	09	05	01	09	10	0.07	
01	09	15	02	10	00	0.45	
02	10	05	03	10	00	0.07	
03	10	05	04	10	25	0.06	
04	10	30	05	09	25	0.28	
05	09	30	06	09	30	0.18	
06	09	35	07	09	00	0.16	
07	09	10	08	09	45	Nil	
08	09	48	09	09	10	0.09	
09	09	15	10	09	30	0.16	
10	09	35	11	10	05	0.16	
11	10	10	12	09	20	Nil	
12	09	25	13	10	00	0.40	
13	10	05	14	10	30	0.20	
14	10	35	15	09	30	1.11	
15	09	35	16	09	10	0.81	
16	09	25	17	09	20	0.41	
17	09	25	18	09	25	0.39	
18	09	30	19	09	15	0.19	
19	09	20	20	09	20	0.32	
20	09	25	21	09	55	1.11	
21	10	00	22	10	00	0.73	
22	10	05	23	09	50	0.10	
23	09	55	24	09	40	0.14	
24	09	45	25	09	20	0.55	
25	09	25	26	09	25	0.08	
26	09	30	27	09	35	1.31	
27	09	40	28	09	10	0.55	
28	09	15	29	09	00	0.93	
29	09	15	30	09	30	1.19	
30	-	-	-	-	-	No data	Sampling equipment unserviceable..

Monthly mean 0.41

Maximum 1.31

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month..... March .....

Year..... 1971 .....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
FEB. 27	MAR. 1	0.08	
MAR. 1	3	0.42	
3	5	0.30	
5	7	0.09	
7	9	0.10	
9	11	0.20	
11	13	0.23	
13	15	0.12	
15	17	0.07	
17	19	0.27	
19	21	0.08	
21	23	0.17	
23	25	0.06	
25	27	0.16	
27	29	0.06	
29	31	0.18	

Monthly mean 0.16

Maximum 0.42

Beta-Radioactivity of Rainwater

Month..... March ..... Year..... 1971 .....

Date of Sampling		Amount of sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
3 MAR.	4 MAR.	33.0	Nil	

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

APR 1971

BULLETIN

OF THE ROYAL OBSERVATORY, HONG KONG

FOR APRIL 1971

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

APR 1971



BULLETIN  
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Beta-Radioactivity of Airborne Dust Near the Earth's Surface  
 Month April Year 1971

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Mar.			Apr.				
31	10	05	01	09	20	0.93	8-12 April sampling equip- ment was un- serviceable. No measurement was made.
01	09	25	02	09	50	NIL	
02	09	55	03	09	10	NIL	
03	09	15	04	09	20	0.05	
04	09	25	05	09	20	NIL	
05	09	25	06	09	15	0.67	
06	09	20	07	09	20	0.20	
07	09	25	08	09	55	0.16	
13	10	40	14	09	30	0.87	
14	09	35	15	09	50	1.28	
15	09	55	16	09	00	0.88	
16	09	05	17	09	00	0.92	
17	09	10	18	10	00	0.39	
18	10	05	19	10	50	0.67	
19	10	55	20	10	00	0.82	
20	10	05	21	10	20	0.49	
21	10	25	22	09	30	0.32	
22	09	35	23	10	00	0.07	
23	10	05	24	10	00	0.36	
24	10	05	25	10	15	0.89	
25	10	20	26	10	00	0.46	
26	10	10	27	10	00	0.52	
27	10	05	28	10	55	0.32	
28	11	00	29	10	50	0.84	
29	10	55	30	09	50	0.56	

Monthly Mean 0.51

Maximum 1.28

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month April  
.....

Year 1971  
.....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
Mar. 31	Apr. 2	0.02	Collecting period 48 hrs. from 0800 H.K.St.T. to 0800 H.K. St.T. approx.
2	4	0.25	
4	6	0.09	
6	8	0.02	
8	10	0.11	
10	12	NIL	
12	14	0.18	
14	16	0.12	
16	18	0.17	
18	20	0.17	
20	22	0.20	
22	24	0.25	
24	26	0.07	
26	28	0.02	
28	30	0.15	

Monthly Mean 0.12

Maximum 0.25

Beta-Radioactivity of Rainwater

Month April  
.....

Year 1971  
.....

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
1	2	9	NIL	Collecting period 24 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.

ROYAL OBSERVATORY

HONG KONG

APR 1971

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

MAY 1971

BULLETIN  
OF  
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG  
FOR MAY 1971

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

Month May

Year 1971

Location of Sampling Point: Lat 22 19' North

Long 114 10' East

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Apr. 30	09	55	May 01	09	00	0.67	
May 01	09	05	02	09	45	1.17	
02	10	00	03	09	55	0.80	
03	10	00	04	09	30	0.68	
04	09	35	05	09	15	0.32	
05	09	20	06	09	00	0.14	
06	09	05	07	09	25	0.96	
07	09	30	08	10	35	1.18	
08	10	40	09	09	30	1.35	
09	09	35	10	09	25	1.51	
10	09	30	11	10	00	1.28	
11	10	05	12	10	00	0.29	
12	10	05	13	10	00	0.09	
13	10	05	14	10	10	0.10	
14	10	20	15	10	00	0.06	
15	10	05	16	10	25	0.48	
16	10	30	17	10	25	0.24	
17	10	30	18	10	10	0.24	
18	10	15	19	09	45	0.23	
19	09	50	20	10	00	0.34	
20	10	05	21	10	00	0.03	
21	10	05	22	09	45	0.73	
22	09	50	23	09	55	0.19	
23	10	00	24	09	30	0.12	
24	09	35	25	10	50	0.08	
25	10	55	26	10	00	0.22	
26	10	05	27	10	10	0.75	
27	10	15	28	09	30	0.25	
28	09	35	29	10	25	0.28	
29	10	30	30	10	00	0.28	
30	10	05	31	10	00	0.04	

Monthly Mean 0.49

Maximum 1.51

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month May

Year 1971

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
Apr. 30	May 2	0.36	Collecting period 48 hrs. from 0800 H.K.St.T. to 0800 H.K.St.T. Approx.
May 2	4	0.04	
4	6	0.32	
6	8	0.12	
8	10	0.15	
10	12	0.37	
12	14	0.16	
14	16	0.49	
16	18	0.28	
18	20	0.40	
20	22	0.10	
22	24	0.23	
24	26	0.30	
26	28	0.11	
28	30	0.28	

Monthly Mean 0.25

Maximum 0.49



Beta-Radioactivity of Rainwater

Month May  
.....

Year 1971  
.....

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
Apr. 30	May 1	60	NIL	Collecting period 24 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
May 4	5	59	0.22	
10	11	770	0.10	
11	12	580	0.09	
16	17	34	0.50	
19	20	3450	0.02	
20	21	20	NIL	
22	30	100	NIL	
30	31	350	NIL	

HONG KONG

1971

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

JUN 1971

BULLETIN  
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FOR JUNE 1971

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

Month JuneYear 1971Location of Sampling Point: Lat  $22^{\circ}19'$  North Long  $114^{\circ}10'$  East

Time of Sampling						Amount of Radioactivity $\text{pCi/m}^3$ of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
MAY 31	10	05	JUN 01	09	25	0.30	
01	09	30	02	09	45	0.30	
02	09	50	03	10	05	NIL	
03	11	10	04	10	30	0.40	
04	10	35	05	09	50	0.19	
05	09	55	06	10	10	0.42	
06	10	15	07	11	30	0.13	
07	11	35	08	09	45	0.10	
08	09	50	09	09	55	NIL	
09	10	00	10	10	00	NIL	
10	10	05	11	10	00	0.09	
11	10	05	12	09	00	0.15	
12	09	05	13	10	05	NIL	
13	10	10	14	10	10	0.30	
14	10	15	15	09	30	0.10	
15	09	35	16	10	10	0.15	
16	10	15	17	09	30	NIL	
17	09	35	18	-	-	No record due to Typhoon FREDA	
18	-	-	19	10	05	0.01	
19	10	10	20	10	05	0.31	
20	10	10	21	09	10	0.08	
21	09	15	22	09	50	0.41	
22	09	55	23	10	25	0.02	
23	10	30	24	10	25	0.31	
24	09	45	25	10	00	NIL	
25	10	05	26	09	30	NIL	
26	09	35	27	10	00	NIL	
27	10	10	28	10	25	0.13	
28	10	30	29	10	05	NIL	
29	10	10	30	09	30	0.22	

Monthly Mean 0.15

Maximum 0.42

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month June

Year 1971

Location of Sampling point: Lat  $22^{\circ}19'$  North

Long  $114^{\circ}10'$  East

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
May 30	Jun 01	0.28	Collecting period 48 hrs. from 0800 H.K.St.T. to 0800 H.K.St.T. Approx.
Jun 01	03	0.11	
03	05	0.30	
05	07	0.63	
07	09	NIL	
09	11	0.21	
11	13	NIL	
13	15	0.08	
15	17	NIL	
17	19	NIL	
19	21	0.05	
21	23	0.18	
23	25	0.64	
25	27	NIL	
27	29	0.13	

Monthly Mean 0.17

Maximum 0.64

Beta-Radioactivity of Rainwater

Month June  
.....

Year 1971  
.....

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
May 31	Jun.* 02	112	0.14	* Collecting period 48 hrs.
Jun 03	04	194	NIL	
07	08	2440	NIL	Collecting period 24 hrs. from 0800 H.K. ST.T. to 0800 H.K. ST.T.Approx.
08	09	440	0.03	
09	10	1001	NIL	
11	12	150	NIL	
17	18	3520	0.01	
18	19	740	NIL	
19	20	140	0.30	
20	21	265	0.07	
23	24	131	0.13	
29	30	166	NIL	

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

JUL 1971

BULLETIN  
OF  
BETA RADIOACTIVITY OF FALL OUT IN HONG KONG  
FOR JULY 1971

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.

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

Month July  
.....

Year 1971  
.....

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
JUN 30	09	35	JUL 01	09	50	0.08	
01	09	55	02	10	10	0.29	
02	10	15	03	09	10	0.07	
03	09	15	04	10	00	0.18	
04	10	15	05	09	35	0.30	
05	09	40	06	09	40	NIL	
06	09	50	07	10	25	NIL	
07	10	30	08	09	45	0.28	
08	09	50	09	10	00	0.03	
09	10	05	10	10	30	0.60	
10	10	35	11	10	00	0.71	
11	10	05	12	09	55	NIL	
12	10	00	13	09	50	0.52	
13	09	55	14	10	40	NIL	
14	10	45	15	09	35	0.10	
15	09	40	16	10	00	NIL	
16	10	05	17	09	45	NIL	
17	09	50	18	10	00	NIL	
18	10	05	19	09	30	0.44	
19	09	35	20	10	00	0.31	
20	10	05	21	10	40	0.36	
21	10	45	22	09	35	0.02	
22	09	40	23	09	20	0.81	
23	09	25	24	10	00	0.80	
24	10	05	25	10	00	1.06	
25	10	10	26	09	45	NIL	
26	09	50	27	10	25	NIL	
27	10	30	28	10	05	0.29	
28	10	10	29	10	00	0.46	
29	10	05	30	09	55	0.19	
30	10	00	31	10	15	0.15	

Monthly Mean 0.26

Maximum 1.06

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month July .....

Year 1971 .....

Location of Sampling point: Lat 22°19' North

Long 114°10' East

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
Jun 29	JUL 01	NIL	Collecting period 48 hrs from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
01	03	0.08	
03	05	0.11	
05	07	0.07	
07	09	0.18	
09	11	0.16	
11	13	0.20	
13	15	0.05	
15	17	0.11	
17	19	0.41	
19	21	NIL	
21	23	0.15	
23	25	NIL	
25	27	0.02	
27	29	0.02	
29	31	0.26	

Monthly mean 0.11

Maximum 0.41

## Beta-Radioactivity of Rainwater

Month July

Year 1971

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
30	01	671	NIL	Collect- ing period 24 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
01	02	72	0.31	
02	03	174	NIL	
04	05	97	0.03	
05	06	248	NIL	
06	07	261	NIL	
07	08	156	0.05	
11	12	884	0.01	
12	13	120	0.29	
13	14	290	0.03	
16	17	1820	NIL	
17	18	360	NIL	
18	19	110	NIL	
21	22	267	NIL	
22	23	4580	NIL	
27	28	55	0.23	
28	29	184	NIL	

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

AUG 1971

BULLETIN  
OF  
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG  
FOR AUGUST 1971

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.

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

Month August

Year 1971

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

Long  $114^{\circ}10'$  East

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
JUL 31	10	20	AUG 01	10	10	0.18	
01	10	15	02	09	50	NIL	
02	09	55	03	10	15	0.04	
03	10	20	04	09	30	0.37	
04	09	40	05	10	00	0.23	
05	10	05	06	10	00	0.21	
06	10	05	07	10	00	NIL	
07	10	05	08	09	55	0.14	
08	10	00	09	10	10	0.18	
09	10	15	10	10	30	0.12	
10	10	35	11	10	30	0.03	
11	10	35	12	10	20	NIL	
12	10	25	13	09	50	0.14	
13	10	00	14	10	20	NIL	
14	10	25	15	10	00	0.27	
15	10	05	16	10	10	0.09	
16	10	20	17	12	00	Sample destroyed by Typhoon ROSE	
17	12	05	18	10	10	NIL	
18	10	15	19	09	45	0.27	
19	09	50	20	10	00	NIL	
20	10	05	21	10	00	NIL	
21	10	05	22	09	40	NIL	
22	09	50	23	10	25	0.09	
23	10	30	24	10	05	0.29	
24	10	10	25	10	00	0.06	
25	10	05	26	09	35	0.15	
26	09	40	27	10	30	NIL	
27	10	35	28	10	30	0.33	
28	10	35	29	09	00	NIL	
29	09	05	30	10	25	NIL	
30	10	30	31	10	10	0.14	

Monthly Mean 0.11

Maximum 0.37

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month August  
.....

Year 1971  
.....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
July 31	Aug. 02	NIL	Collecting period 48 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
02	04	0.02	
04	06	0.37	
06	08	0.02	
08	10	NIL	
10	12	0.23	
12	14	0.07	
14	16	0.11	
16	18	NIL	
18	20	0.09	
20	22	NIL	
22	24	0.31	
24	26	0.04	
26	28	0.11	
28	30	NIL	

Monthly mean 0.09

Maximum 0.37

Beta-Radioactivity of Rainwater

Month August

Year 1971

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
JUL 31	AUG 01	228	NIL	Collect- ing period 24 hrs. from 0800 H.K.ST. T. to 0800 H.K.ST.T. Approx.
04	05	600	NIL	
05	06	400	0.04	
06	07	820	0.01	
07	08	667	NIL	
08	09	1805	0.01	
12	13	800	NIL	
13	14	360	NIL	
16	17	1400	0.02	
17	18	1387	0.02	

HONG KONG

SEP 1971



RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

SEP 1971

BULLETIN  
OF  
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG  
FOR SEPTEMBER 1971

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.

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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 September .....

Year 1971 .....

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Aug 31	10	15	SEP 01	10	50	NIL	
01	11	45	02	09	45	0.14	
02	09	50	03	10	00	NIL	
03	10	05	04	10	20	0.04	
04	10	25	05	09	45	0.16	
05	09	50	06	09	50	0.19	
06	09	55	07	09	50	0.03	
07	09	55	08	09	50	0.12	
08	09	55	09	09	20	NIL	
09	09	25	10	09	30	0.03	
10	09	35	11	09	55	0.02	
11	10	00	12	10	15	0.24	
12	10	20	13	09	30	NIL	
13	09	35	14	09	45	0.23	
14	09	50	15	09	55	0.24	
15	10	00	16	10	25	0.08	
16	10	30	17	09	30	0.19	
17	09	35	18	09	30	0.19	
18	09	55	19	09	55	0.53	
19	10	00	20	10	25	0.17	
20	10	30	21	09	15	0.06	
21	09	20	22	10	15	0.18	
22	10	20	23	09	45	0.07	
23	09	50	24	10	25	0.11	
24	10	30	25	10	00	0.10	
25	10	05	26	10	25	0.11	
26	10	30	27	09	45	0.20	
27	09	50	28	10	35	0.31	
28	10	40	29	09	30	0.36	
29	09	35	30	10	00	0.06	

Monthly Mean 0.13

Maximum 0.53

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month September  
 .....

Year 1971  
 .....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
AUG 30	SEP 01	0.02	Collecting period 48 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
01	03	NIL	
03	05	0.12	
05	07	0.15	
07	09	NIL	
09	11	0.01	
11	13	NIL	
13	15	NIL	
15	17	0.13	
17	19	0.16	
19	21	0.08	
21	23	0.06	
23	25	0.13	
25	27	0.08	
27	29	0.42	

Monthly Mean 0.09

Maximum 0.42

Beta-Radioactivity of Rainwater

Month September Year 1971

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
01	02	510	0.06	Collect- ing period 24 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
03	04	807	0.02	
05	06	790	0.01	
11	12	1565	0.01	
13	14	133	0.08	
14	15	22	NIL	
25	26	479	0.06	
29	30	950	0.01	

HONG KONG

OCT 1971

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

OCT 1971

BULLETIN  
OF  
BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG  
FOR OCTOBER 1971

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

Month October  
 .....

Year 1971  
 .....

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Sep 30	10	05	Oct 01	10	10	0.03	
01	10	15	02	10	20	0.25	
02	10	25	03	10	00	NIL	
03	10	05	04	10	00	0.06	
04	10	05	05	10	00	0.03	
05	10	05	06	09	30	NIL	
06	09	40	07	10	30	0.05	
07	10	35	08	09	55	0.21	
08	10	00	09	10	25	0.29	
09	10	30	10	09	45	0.23	
10	09	50	11	10	10	0.22	
11	10	15	12	10	25	0.43	
12	10	30	13	10	05	0.45	
13	10	10	14	10	30	0.14	
14	10	35	15	10	00	0.36	
15	10	10	16	10	05	0.32	
16	10	10	17	10	30	0.07	
17	10	35	18	09	30	0.07	
18	09	35	19	09	25	0.23	
19	09	30	20	09	25	0.08	
20	09	30	21	09	00	0.29	
21	09	05	22	09	25	0.08	
22	09	30	23	09	30	0.10	
23	09	35	24	09	30	0.08	
24	09	35	25	09	00	0.11	
25	09	05	26	09	00	0.31	
26	09	05	27	09	30	NIL	
27	09	35	28	10	20	NIL	
28	10	25	29	09	45	0.38	
29	09	50	30	10	20	0.02	
30	10	25	31	09	40	0.32	

Monthly Mean 0.17

Maximum 0.45



Beta-Radioactivity of Total Deposition (Dry and Wet)

Month October  
 .....

Year 1971  
 .....

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

Date of Sampling		Amount of Radioactivity mCi/km <sup>2</sup>	Remarks
Start	End		
Sept. 29	Oct. 01	0.47	Collecting period 48 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
01	03	0.05	
03	05	0.16	
05	07	0.07	
07	09	0.22	
09	11	0.19	
11	13	0.15	
13	15	NIL	
15	17	0.15	
17	19	0.28	
19	21	0.19	
21	23	0.36	
23	25	0.15	
25	27	0.21	
27	29	0.39	
29	31	0.11	

Monthly Mean 0.20

Maximum 0.47

Beta-Radioactivity of Rainwater

Month October Year 1971  
 .....  
 .....

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
SEP 30	OCT 01	1000	0.02	Collect- ing period 24 hrs. from 0800 H.K.ST.T. to 0800 H.K.ST.T. Approx.
01	02	26	0.05	
*28	30	560	0.03	

ROYAL OBSERVATORY

HONG KONG

NOV 1971

**RADIOACTIVITY BULLETIN**

**ROYAL OBSERVATORY**

**HONG KONG**

**NOV 1971**

BULLETIN

OF

BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG

FOR NOVEMBER 1971

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.

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Date	Time	Count	Rate	Count	Rate	Count	Rate
13	09	32	0.32	35	0.35	38	0.38
14	09	36	0.36	39	0.39	42	0.42
15	10	40	0.40	43	0.43	46	0.46
16	09	44	0.44	47	0.47	50	0.50
17	09	48	0.48	51	0.51	54	0.54
18	09	52	0.52	55	0.55	58	0.58
19	09	56	0.56	59	0.59	62	0.62
20	10	60	0.60	63	0.63	66	0.66
21	09	64	0.64	67	0.67	70	0.70
22	09	68	0.68	71	0.71	74	0.74
23	09	72	0.72	75	0.75	78	0.78
24	09	76	0.76	79	0.79	82	0.82
25	09	80	0.80	83	0.83	86	0.86
26	09	84	0.84	87	0.87	90	0.90
27	09	88	0.88	91	0.91	94	0.94
28	09	92	0.92	95	0.95	98	0.98
29	10	100	1.00	103	1.03	106	1.06

Monthly mean: 0.80  
Maximum: 1.06

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

Month NOVEMBER Year 1971

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
Oct. 31	09	40	Nov. 01	09	35	0.49	
01	09	40	02	09	55	0.45	
02	10	00	03	09	00	0.24	
03	09	05	04	09	05	0.36	
04	09	10	05	09	15	0.39	
05	09	20	06	10	10	0.10	
06	10	15	07	09	20	0.29	
07	09	25	08	09	10	0.13	
08	09	15	09	09	50	0.29	
09	09	55	10	09	30	NIL	
10	09	40	11	09	55	NIL	
11	10	00	12	09	00	0.23	
12	09	05	13	09	00	0.29	
13	09	05	14	09	45	NIL	
14	09	50	15	10	00	0.57	
15	10	05	16	09	30	NIL	
16	09	35	17	09	50	0.23	
17	09	55	18	09	30	0.43	
18	09	35	19	09	30	0.28	
19	09	40	20	09	55	0.31	
20	10	00	21	09	00	0.29	
21	09	05	22	09	00	0.16	
22	09	05	23	09	10	67.03	
23	09	15	24	08	35	48.51	
24	08	40	25	08	55	25.09	
25	09	00	26	09	00	3.86	
26	09	05	27	09	35	3.06	
27	09	40	28	08	50	1.13	
28	09	00	29	09	55	1.25	
29	10	00	30	09	30	0.60	

Monthly mean 5.20

Maximum 67.03

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month NOVEMBER .....

Year 1971 .....

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

Date of Sampling		Amount of Radio- activity mCi/Km <sup>2</sup>	Remarks
Start	End		
OCT 31	NOV 02	0.23	Collecting period 48 hrs. from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
02	04	0.19	
04	06	0.20	
06	08	0.11	
08	10	NIL	
10	12	0.19	
12	14	0.03	
14	16	NIL	
16	18	0.18	
18	20	0.19	
20	22	NIL	
22	24	4.77	
24	26	0.65	
26	28	0.48	
28	30	0.09	

Monthly mean 0.49

Maximum 4.77

RADIOACTIVITY BULLETIN

ROYAL OBSERVATORY

HONG KONG

▶ DEC 1971

BULLETIN

OF

BETA-RADIOACTIVITY OF FALL-OUT IN HONG KONG

FOR DECEMBER 1971

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°19' North, 114°10' East), with the exception of rainfall samples which are obtained from the Royal Observatory (22°18' North, 114°10' East).

Date	Hour	1st	2nd	3rd	4th	5th
14	09	01	13	08	05	0.30
15	09	30	19	08	03	0.17
16	09	50	17	09	05	0.21
17	10	05	14	07	04	0.23
18	08	35	13	10	06	0.25
19	10	05	20	10	06	0.19
20	10	05	21	10	15	0.21
21	10	20	22	10	20	0.26
22	10	05	23	10	20	0.21
23	10	05	24	10	25	0.21
24	09	30	25	05	25	0.22
25	09	50	26	05	25	0.21
26	09	45	27	05	30	0.29
27	09	35	28	09	25	0.21
28	05	45	29	20	25	0.21
29	10	10	30	10	10	0.24
30	10	15	31	08	25	0.25

Monthly mean 0.22

Standard deviation 0.04



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

Month .. DECEMBER ..

Year .. 1971 ..

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

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of Air	Remarks
Start			End				
Date	Hour	Min	Date	Hour	Min		
NOV			DEC				
30	09	35	01	10	05	0.22	
01	10	10	02	10	00	0.44	
02	10	05	03	09	20	0.64	
03	09	25	04	09	50	0.59	
04	09	55	05	09	00	0.28	
05	09	05	06	09	00	0.20	
06	09	05	07	09	30	0.20	
07	09	40	08	09	55	0.52 <sub>y</sub>	
08	10	00	09	10	45	0.35	
09	10	50	10	08	55	0.16	
10	09	00	11	10	30	0.11	
11	10	35	12	10	10	0.06	
12	10	15	13	10	15	0.43	
13	10	20	14	09	00	0.25	
14	09	05	15	09	25	0.56	
15	09	30	16	09	40	0.17	
16	09	50	17	09	55	0.21	
17	10	00	18	08	30	0.28	
18	08	35	19	10	00	NIL	
19	10	05	20	10	00	0.12	
20	10	05	21	10	15	NIL	
21	10	20	22	10	00	NIL	
22	10	05	23	10	00	NIL	
23	10	05	24	09	25	NIL	
24	09	30	25	09	40	NIL	
25	09	50	26	09	40	NIL	
26	09	45	27	09	30	0.09	
27	09	35	28	09	40	NIL	
28	09	45	29	10	05	NIL	
29	10	10	30	10	10	NIL	
30	10	15	31	09	25	0.01	

Monthly mean 0.19

Maximum 0.64

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month DECEMBER Year 1971

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

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
NOV 30	DEC 2	0.35	Collecting period 48 hrs from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
DEC 2	4	0.24	
4	6	NIL	
6	8	0.15	
8	10	0.50	
10	12	0.26	
12	14	0.17	
14	16	0.09	
16	18	NIL	
18	20	0.15	
20	22	NIL	
22	24	0.14	
24	26	NIL	
26	28	NIL	
28	30	0.17	

Monthly mean 0.15

Maximum 0.50

## Beta-Radioactivity of Rainwater

Month DECEMBER .....

Year .....1971 .....

Date of Sampling		Amount of Sample Water cm <sup>3</sup>	Amount of Radio- activity pCi/cm <sup>3</sup>	Remarks
Start	End			
18	19	3150	0.01	Collecting period 24 hrs. from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
20	21	220	0.07	
22	23	1370	0.01	
26	27	100	0.33	

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