

Month: JAN 79 Year: 1979

Location of Sampling Point: 114° 10' E, 22° 19' N

Date	Start	Time of Sampling		Amount of dust in filter	Radioactivity per 10 <sup>3</sup> m <sup>3</sup> of air
		Hour	Min.		
20	07	07	37	0.37	
21	07	07	30	0.30	
22	07	07	17	0.17	
23	07	07	00	0.00	
24	07	07	00	0.00	
25	07	07	00	0.00	
26	07	07	00	0.00	
27	07	07	00	0.00	
28	07	07	00	0.00	
29	07	07	00	0.00	
30	07	07	00	0.00	
31	07	07	00	0.00	
1	07	07	00	0.00	
2	07	07	00	0.00	
3	07	07	00	0.00	
4	07	07	00	0.00	
5	07	07	00	0.00	
6	07	07	00	0.00	
7	07	07	00	0.00	
8	07	07	00	0.00	
9	07	07	00	0.00	
10	07	07	00	0.00	
11	07	07	00	0.00	
12	07	07	00	0.00	
13	07	07	00	0.00	
14	07	07	00	0.00	
15	07	07	00	0.00	
16	07	07	00	0.00	
17	07	07	00	0.00	
18	07	07	00	0.00	
19	07	07	00	0.00	
20	07	07	00	0.00	
21	07	07	00	0.00	
22	07	07	00	0.00	
23	07	07	00	0.00	
24	07	07	00	0.00	
25	07	07	00	0.00	
26	07	07	00	0.00	
27	07	07	00	0.00	
28	07	07	00	0.00	
29	07	07	00	0.00	
30	07	07	00	0.00	
31	07	07	00	0.00	
Monthly Mean: 0.11					
Maximum: 0.37					

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

JAN 79

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

Month: JANYear: 1979

Location of Sampling Point:-

Lat. 22° 19' N.Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
DEC 31	09	40	JAN 01	09	30	0.34	
01	09	35	02	09	30	NIL	
02	09	35	03	09	15	0.18	
03	09	20	04	09	00	NIL	
04	09	05	05	09	50	0.54	
05	09	55	06	09	30	0.13	
06	09	35	07	09	05	NIL	
07	09	10	08	09	00	NIL	
08	09	05	09	09	10	NIL	
09	09	15	10	09	05	0.09	
10	09	10	11	09	45	0.18	
11	09	50	12	09	10	NIL	
12	09	15	13	09	00	NIL	
13	09	05	14	09	30	0.55 ✓	
14	09	35	15	09	15	0.12 ✓	
15	09	20	16	09	00	NIL ✓	
16	09	05	17	09	00	NIL ✓	
17	09	05	18	09	10	0.13 ✓	
18	09	15	19	09	05	0.04 ✓	
19	09	10	20	09	05	NIL ✓	
20	09	10	21	09	30	0.13 ✓	
21	09	35	22	09	20	NIL ✓	
22	09	25	23	09	10	NIL ✓	
23	09	15	24	09	15	NIL ✓	
24	09	20	25	09	10	0.21 ✓	
25	09	15	26	09	00	0.36 ✓	
26	09	05	27	09	15	0.26 ✓	
27	09	20	28	09	10	NIL	
28	09	15	29	09	00	NIL	
29	09	05	30	09	30	NIL	
30	09	35	31	09	20	NIL	
Monthly Mean:-						0.11	
Maximum :-						0.55	

## Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : JANYear : 1979Location of Sampling Point :- Lat. 22° 19' N.Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
31 0900	02 0900	0.08	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
02 0900	04 0900	NIL	
04 0900	06 0900	NIL	
06 0900	08 0900	NIL	
08 0900	10 0900	NIL	
10 0900	12 0900	0.11	
12 0900	14 0900	NIL	
14 0900	16 0900	0.05	
16 0900	18 0900	0.03	
18 0900	20 0900	NIL	
20 0900	22 0900	NIL	
22 0900	24 0900	NIL	
24 0900	26 0900	0.07	
26 0900	28 0900	NIL	
28 0900	30 0900	NIL	
Monthly Mean :-		0.02	
Maximum :-		0.11	





Beta-Radioactivity of Airborne Dust Near the Earth's Surface  
 (see also attached letter to your laboratory)  
 Month: Feb Year: 1979  
 Location of Sampling Point: 114° 10' E  
 Lat. 22° 19' N Long. 114° 10' E

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

FEB 79

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

Monthly Mean: 0.08  
 Maximum: 0.08

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

Month: FEB.Year: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	09	25	01	09	00	0.06	
01	09	05	02	09	10	0.20	
02	09	15	03	09	00	NIL	
03	09	05	04	09	00	NIL	
04	09	05	05	09	40	0.11	
05	09	45	06	09	00	NIL	
06	09	05	07	09	25	0.08	
07	09	30	08	09	10	NIL	
08	09	15	09	09	10	NIL	✓
09	09	15	10	09	20	0.05	✓
10	09	25	11	09	40	0.13	✓
11	09	45	12	09	00	NIL	
12	09	05	13	09	10	NIL	
13	09	15	14	09	05	NIL	
14	09	10	15	09	05	NIL	
15	09	10	16	09	40	NIL	
16	09	45	17	09	05	0.16	
17	09	10	18	09	10	0.27	✓
18	09	15	19	09	15	0.22	✓
19	09	20	20	09	15	NIL	
20	09	20	21	09	30	NIL	
21	09	35	22	09	00	0.48	
22	09	05	23	09	10	NIL	
23	09	15	24	09	25	NIL	
24	09	30	25	09	20	NIL	
25	09	25	26	09	40	0.33	
26	09	45	27	09	25	0.19	
27	09	30	28	09	20	NIL	
28			29				
29			30				
30			31				
Monthly Mean:-						0.08	
Maximum :-						0.48	



## Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : FEB. Year : 1979Location of Sampling Point :- Lat. 22° 19' N.Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
30 09 00	01 09 00	0.02	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
01 09 00	03 09 00	0.02	
03 09 00	05 09 00	NIL	
05 09 00	07 09 00	0.15	
07 09 00	09 09 00	0.03	
09 09 00	11 09 00	NIL	
11 09 00	13 09 00	NIL	
13 09 00	15 09 00	NIL	
15 09 00	17 09 00	NIL	
17 09 00	19 09 00	NIL	
19 09 00	21 09 00	0.04	
21 09 00	23 09 00	NIL	
23 09 00	25 09 00	NIL	
25 09 00	27 09 00	0.14	
Monthly Mean :-		0.03	
Maximum :-		0.15	





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

Month: MAR 79 Year: 1979

Location of Sampling Point: Lat. 22° 19' N, Long. 114° 10' E

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

MAR 79

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

Monthly Mean: 0.11  
 Maximum: 0.80

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

Month: MARCHYear: 1979

Location of Sampling Point:-

Lat. 22° 19' N.Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
28	09	25	01	09	15	NIL	
01	09	20	02	09	00	NIL	
02	09	05	03	09	10	NIL	
03	09	15	04	09	15	0.12	
04	09	20	05	09	10	NIL	
05	09	15	06	09	50	0.14	
06	09	55	07	09	50	NIL	
07	09	55	08	10	00	0.49	
08	10	05	09	09	15	NIL	
09	09	20	10	09	50	NIL	
10	09	55	11	09	05	0.39	
11	09	10	12	09	20	NIL	
12	09	25	13	09	30	NIL	
13	09	35	14	09	15	NIL	
14	09	20	15	09	30	0.21	
15	09	35	16	09	35	0.35	
16	09	40	17	09	10	NIL	
17	09	15	18	09	05	NIL	
18	09	10	19	09	05	NIL	
19	09	10	20	09	05	NIL	
20	09	10	21	09	45	0.07	
21	09	50	22	09	20	0.07	
22	09	25	23	09	15	NIL	
23	09	20	24	09	35	NIL	
24	09	40	25	09	20	0.80	
25	09	25	26	09	10	0.12	
26	09	15	27	09	10	NIL	
27	09	15	28	09	05	0.14	
28	09	10	29	09	10	0.21	
29	09	15	30	09	25	NIL	
30	09	20	31	09	25	0.37	
Monthly Mean:-						<del>0.15</del> 0.11	
Maximum :-						0.80	

## Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : MARCH Year : 1979Location of Sampling Point :- Lat. 22° 19' N.Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
FEB 27	MAR 01	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
MAR 01	" 03	NIL	
" 03	" 05	NIL	
" 05	" 07	0.07	
" 07	" 09	0.03	
" 09	" 11	0.15	
" 11	" 13	NIL	
" 13	" 15	0.05	
" 15	" 17	NIL	
" 17	" 19	NIL	
" 19	" 21	0.23	
" 21	" 23	NIL	
" 23	" 25	0.30	
" 25	" 27	NIL	
" 27	" 29	0.04	
" 29	" 31	0.05	
Monthly Mean :-		0.06	
Maximum :-		0.30	





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

Month: April 1979

Location of Sampling Point: ...

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# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

APR 79

Date	Hour	Min.	Time of Sampling		Amount of Radioactivity per m <sup>3</sup> of air	Remarks
			Start	End		
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
			Monthly Mean:-		0.07	
			Maximum :-		0.70	

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

Month: APRILYear: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks mBq/m <sup>3</sup>
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	09	30	01	09	00	NIL	NIL
01	09	05	02	09	10	0.17	6.29
02	09	15	03	09	45	0.33	12.21
03	09	30	04	09	05	NIL	NIL
04	09	10	05	09	10	0.02	0.74
05	09	15	06	09	05	NIL	NIL
06	09	10	07	09	10	NIL	NIL
07	09	15	08	09	10	NIL	NIL
08	09	15	09	09	20	NIL	NIL
09	09	25	10	09	10	NIL	NIL
10	09	15	11	09	20	NIL	NIL
11	09	25	12	09	05	0.40	14.8
12	09	10	13	09	10	0.20	7.4
13	09	15	14	09	05	0.70	25.9
14	09	10	15	09	00	0.20	7.4
15	09	05	16	09	10	NIL	NIL
16	09	15	17	09	05	NIL	NIL
17	09	10	18	09	10	NIL	NIL
18	09	15	19	09	05	NIL	NIL
19	09	10	20	09	00	NIL	NIL
20	09	05	21	09	15	NIL	NIL
21	09	20	22	09	10	NIL	NIL
22	09	15	23	09	15	NIL	NIL
23	09	15	24	09	05	NIL	NIL
24	09	10	25	09	00	NIL	NIL
25	09	05	26	09	15	0.08	2.96
26	09	20	27	09	45	0.67	24.79
27	09	50	28	09	25	NIL	NIL
28	09	30	29	09	10	NIL	NIL
29	09	15	30	09	25	NIL	NIL
30			01				
Monthly Mean:-						0.09	
Maximum :-						0.70	



## Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : APRIL Year : 1979Location of Sampling Point :- Lat. 22° 19' N.Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
MAR 31 0900H	APR 02 0900H	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
APR 02 0900	" 04 0900	NIL	
04 0900	" 06 0900	NIL	
06 0900	08 0900	0.05	
08 0900	10 0900	NIL	
10 0900	12 0900	NIL	
12 0900	14 0900	0.11	
14 0900	16 0900	NIL	
16 0900	18 0900	0.06	
18 0900	20 0900	NIL	
20 0900	22 0900	NIL	
22 0900	24 0900	NIL	
24 0900	26 0900	0.01	
26 0900	28 0900	NIL	
28 0900	30 0900	NIL	
Monthly Mean :-		0.01	
Maximum :-		0.11	



Month: MAY Year: 1979  
Location of Sampling Point: (The dust was collected at the Royal Observatory, Hong Kong)  
Month: MAY Year: 1979

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

MAY 79

Date	Hour	Min.	Time of Sampling		Remarks
			Hour	Min.	
01	00	00	01	00	
02	00	00	02	00	
03	00	00	03	00	
04	00	00	04	00	
05	00	00	05	00	
06	00	00	06	00	
07	00	00	07	00	
08	00	00	08	00	
09	00	00	09	00	
10	00	00	10	00	
11	00	00	11	00	
12	00	00	12	00	
13	00	00	13	00	
14	00	00	14	00	
15	00	00	15	00	
16	00	00	16	00	
17	00	00	17	00	
18	00	00	18	00	
19	00	00	19	00	
20	00	00	20	00	
21	00	00	21	00	
22	00	00	22	00	
23	00	00	23	00	
24	00	00	24	00	
25	00	00	25	00	
26	00	00	26	00	
27	00	00	27	00	
28	00	00	28	00	
29	00	00	29	00	
30	00	00	30	00	
31	00	00	31	00	
Monthly Mean: 0.10					
Maximum: 1.0					



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

Month: MAYYear: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
30	09	30	01	09	30	1.6	
01	09	35	02	09	15	0.2	
02	09	20	03	09	10	NIL	
03	09	15	04	09	10	0.46	
04	09	15	05	09	10	NIL	
05	09	15	06	09	20	NIL	
06	09	25	07	09	05	NIL	
07	09	10	08	09	05	NIL	
08	09	10	09	09	05	0.4	
09	09	10	10	09	20	0.03	
10	09	25	11	09	05	1	
11	09	10	12	09	05	NIL	
12	09	10	13	09	10	NIL	
13	09	15	14	09	10	NIL	
14	09	15	15	10	25	NIL	
15	10	40	16	10	05	NIL	
16	10	10	17	09	05	NIL	
17	09	10	18	09	05	NIL	
18	09	10	19	09	00	0.31	
19	09	05	20	09	05	NIL	
20	09	10	21	09	15	0.05	
21	09	20	22	09	00	NIL	
22	09	05	23	09	20	NIL	
23	09	25	24	09	25	NIL	
24	09	30	25	09	35	0.61	
25	09	40	26	09	00	0.14	
26	09	05	27	09	00	NIL	
27	09	05	28	09	05	NIL	
28	09	10	29	09	00	NIL	
29	09	05	30	09	15	0.3	
30	09	20	31	09	10	NIL	
Monthly Mean:-						0.16	
Maximum :-						1.6	

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : MAY Year : 1978

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

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
30 09 00	02 09 00	0.14	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
02 09 00	04 09 00	0.12	
04 09 00	06 09 00	0.01	
06 09 00	08 09 00	NIL	
08 09 00	10 09 00	0.07	
10 09 00	12 09 00	0.04	
12 09 00	14 09 00	NIL	
14 09 00	16 09 00	NIL	
16 09 00	18 09 00	NIL	
18 09 00	20 09 00	NIL	
20 09 00	22 09 00	NIL	
22 09 00	24 09 00	NIL	
24 09 00	26 09 00	NIL	
26 09 00	28 09 00	NIL	
28 09 00	30 09 00	NIL	
Monthly Mean :-		0.025	
Maximum :-		0.14	





Month: JUNE Year: 1979

Location of Sampling Point: at all stations, 110° 10' E

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

JUN 79

Date	Start Hour	Min.	Time of Sampling		Amount of Radioactivity per m <sup>3</sup> of air	Remarks
			Hour	Min.		
01	00	00	01	00	0.00	
02	00	00	02	00	0.00	
03	00	00	03	00	0.00	
04	00	00	04	00	0.00	
05	00	00	05	00	0.00	
06	00	00	06	00	0.00	
07	00	00	07	00	0.00	
08	00	00	08	00	0.00	
09	00	00	09	00	0.00	
10	00	00	10	00	0.00	
11	00	00	11	00	0.00	
12	00	00	12	00	0.00	
13	00	00	13	00	0.00	
14	00	00	14	00	0.00	
15	00	00	15	00	0.00	
16	00	00	16	00	0.00	
17	00	00	17	00	0.00	
18	00	00	18	00	0.00	
19	00	00	19	00	0.00	
20	00	00	20	00	0.00	
21	00	00	21	00	0.00	
22	00	00	22	00	0.00	
23	00	00	23	00	0.00	
24	00	00	24	00	0.00	
25	00	00	25	00	0.00	
26	00	00	26	00	0.00	
27	00	00	27	00	0.00	
28	00	00	28	00	0.00	
29	00	00	29	00	0.00	
30	00	00	30	00	0.00	

Monthly Mean: 0.00  
 Maximum: 0.00

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

Month: JUNEYear: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	09	15	01	09	20	NIL	* NO DATA
01	09	25	02	09	05	0.18	∴ PUMP/LS
02	09	10	03	09	00	NIL	
03	09	05	04	09	25	0.05	
04	09	30	05	10	05	0.03	
05	10	10	06	09	40	NIL	
06	09	45	07	09	50	NIL	
07	09	55	08	09	25	NIL	
08	09	30	09	09	10	— *	
09	09	15	10	09	15	NIL	
10	09	20	11	09	35	NIL	
11	09	40	12	09	05	0.57	
12	09	10	13	09	10	0.43	
13	09	15	14	09	30	NIL	
14	09	35	15	10	05	0.42	
15	10	10	16	09	00	NIL	
16	09	05	17	09	20	NIL	
17	09	25	18	09	20	NIL	
18	09	25	19	09	10	NIL	
19	09	15	20	09	10	NIL	
20	09	15	21	09	05	NIL	
21	09	10	22	09	05	NIL	
22	09	10	23	09	45	NIL	
23	09	50	24	09	00	NIL	
24	09	05	25	09	00	NIL	
25	09	05	26	09	05	0.59	
26	09	10	27	09	05	NIL	
27	09	10	28	09	30	NIL	
28	09	35	29	09	15	NIL	
29	09	20	30	09	10	0.24	
30	09	15	31				
Monthly Mean:-						0.084	
Maximum :-						0.59	

## Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : JUNE Year : 1979Location of Sampling Point :- Lat. 22° 19' N.Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
<del>30</del>	01	<del>NIL</del>	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
01	03	NIL	
03	05	0.16	
05	07	NIL	
07	09	0.05	
09	11	NIL	
11	13	NIL	
13	15	0.19	
15	17	NIL	
17	19	NIL	
19	21	NIL	
21	23	NIL	
23	25	NIL	
25	27	NIL	
27	29	NIL	
29	01	NIL	
Monthly Mean :-		0.027	
Maximum :-		0.19	



Beta-Radioactivity of Rainwater

Month: JUNE

Year: 1979

Date of Sampling		Amount of water Sample $\text{cm}^3$	Amount of Radioactivity $\text{pCi/cm}^3$	Remarks
Start	End			
31	01	19	NIL	Collecting period 24 hours from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
07	08	1150	NIL	
08	09	695	NIL	
09	10	1840	NIL	
10	11	1728	NIL	
11	12	1875	NIL	
12	14	222	NIL	
17	18	244	NIL	
22	23	103	0-31	
23	26	254	NIL	
26	27	380	NIL	
27	28	213	NIL	
28	29	199	NIL	
29	30	1980	NIL	

Monthly Mean - 0.084  
 Standard Deviation - 0.59

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

JUL 79

Date	Time of Sampling	Start	Amount of dust		Remarks
			Radioactivity	of dust	
30	12	09	0.03		
30	15	09	0.03		
30	18	09	0.03		
30	21	09	0.03		
30	24	09	0.03		
30	27	09	0.03		
30	30	09	0.03		
31	03	09	0.03		
31	06	09	0.03		
31	09	09	0.03		
31	12	09	0.03		
31	15	09	0.03		
31	18	09	0.03		
31	21	09	0.03		
31	24	09	0.03		
31	27	09	0.03		
31	30	09	0.03		
31	03	09	0.03		
31	06	09	0.03		
31	09	09	0.03		
31	12	09	0.03		
31	15	09	0.03		
31	18	09	0.03		
31	21	09	0.03		
31	24	09	0.03		
31	27	09	0.03		
31	30	09	0.03		
Monthly Mean:-			0.03		
Maximum:-			0.03		

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

Month: JULYYear: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
30	09	15	01	09	30	NIL	
01	09	35	02	09	20	NIL	
02	09	25	03	10	10	NIL	
03	10	15	04	10	25	NIL	
04	10	30	05	09	25	NIL	
05	09	30	06	09	15	NIL	
06	09	20	07	09	30	NIL	
07	09	35	08	09	10	NIL	
08	09	15	09	09	40	NIL	
09	09	45	10	09	15	NIL	
10	09	20	11	09	40	0.41	
11	09	45	12	09	35	NIL	
12	09	40	13	09	20	NIL	
13	09	25	14	09	05	0.21	
14	09	10	15	09	15	NIL	
15	09	20	16	09	25	NIL	
16	09	30	17	10	05	NIL	
17	10	10	18	09	25	NIL	
18	09	30	19	09	05	NIL	
19	09	10	20	09	35	NIL	
20	09	40	21	10	35	NIL	
21	10	40	22	09	40	0.58	
22	09	45	23	09	10	NIL	
23	09	15	24	09	40	NIL	
24	09	45	25	09	40	NIL	
25	09	45	26	09	05	NIL	
26	09	10	27	09	05	NIL	
27	09	10	28	10	00	0.70	
28	10	05	29	09	20	NIL	
29	09	25	30	09	30	NIL	
30	09	35	31	09	15	0.33	
Monthly Mean:-						0.07	
Maximum :-						0.58	



## Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : JULY Year : 1979Location of Sampling Point :- Lat. 22° 19' N.Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
01	03	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
03	05	NIL	
05	07	NIL	
07	09	NIL	
09	11	0.21	
11	13	NIL	
13	15	NIL	
15	17	NIL	
17	19	NIL	
19	21	NIL	
21	23	NIL	
23	25	NIL	
25	27	NIL	
27	29	NIL	
29	31	0.18	
Monthly Mean :-		0.026	
Maximum :-		0.21	



Month: Aug Year: 1979

Location of Sampling Point (Lat. and Long.)  
Month: Aug Year: 1979

Date	Hour	Min.	Start	End	Radioactivity	Remarks
31	09	20	10			
01	09	20	10			
02	09	20	10			
03	09	20	10			
04	09	20	10			
05	09	20	10			
06	09	20	10			
07	09	20	10			
08	09	20	10			
09	09	20	10			
10	09	20	10			
11	10	50	12			
12	09	15	13			
13	09	15	14			
14	10	10	15			
15	09	25	16			
16	09	25	17			
17	09	10	18			
18	10	00	19			
19	09	40	20			
20	10	05	21			
21	09	25	22			
22	09	15	23			
23	09	45	24			
24	09	35	25			
25	09	30	26			
26	09	15	27			
27	09	10	28			
28	09	10	29			
29	09	20	30			
30	09	20	31			

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

AUG 79

Monthly Mean:-

Maximum :-

0.18

0.70



Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : AUG Year : 1979

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

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks	
Start	End			
JUL 310900	AUG 020900	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.	
AUG 020900	040900	NIL		
040900	060900	NIL		
060900	080900	NIL		
080900	100900	0.14		
100900	120900	0.02		
120900	140900	NIL		
140900	160900	NIL		
160900	180900	0.12		
180900	200900	NIL		
200900	220900	NIL		
220900	240900	0.19		
240900	260900	NIL		
260900	280900	0.01		
280900	300900	0.01		
Monthly Mean :-		0.03		
Maximum :-		0.19		

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

Month: AugYear: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
JUL 31	09	20	01	09	00	NIL	
01	09	05	02	09	00	0.70	
02	09	05	03	09	00	—	FILTER DAMAGED
03	09	05	04	09	35	NIL	
04	09	40	05	09	10	NIL	
05	09	15	06	09	25	0.05	
06	09	30	07	09	15	0.54	
07	09	20	08	09	00	0.49	
08	09	05	09	09	05	0.01	
09	09	10	10	09	10	0.20	
10	09	15	11	10	45	0.41	
11	10	50	12	09	10	0.49	
12	09	15	13	09	30	NIL	
13	09	25	14	10	05	NIL	
14	10	10	15	09	20	NIL	
15	09	25	16	09	00	NIL	
16	09	25	17	09	05	NIL	
17	09	10	18	09	55	0.09	
18	10	00	19	09	25	0.10	
19	09	40	20	10	00	NIL	
20	10	05	21	09	30	0.31	
21	09	25	22	09	10	NIL	
22	09	15	23	09	40	0.42	
23	09	45	24	09	30	NIL	
24	09	35	25	09	25	0.61	
25	09	30	26	09	10	NIL	
26	09	15	27	09	05	0.23	
27	09	10	28	09	05	NIL	
28	09	10	29	09	15	0.48	
29	09	20	30	09	15	NIL	
30	09	20	31	09	15	0.38	
Monthly Mean:-						0.18	
Maximum :-						0.70	









Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : SEP Year : 1979

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

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
AUG 30 0900	SEP 01 0900	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
SEP 01 0900	" 03 0900	0.12	
" 03 0900	" 05 0900	0.04	
" 05 0900	" 07 0900	0.20	
" 07 0900	" 09 0900	NIL	
" 09 0900	" 11 0900	NIL	
" 11 0900	" 13 0900	0.10	
" 13 0900	" 15 0900	NIL	
" 15 0900	" 17 0900	NIL	
" 17 0900	" 19 0900	0.07	
" 19 0900	" 21 0900	0.13	
" 21 0900	" 23 0900	NIL	
" 23 0900	" 25 0900	0.14	
" 25 0900	" 27 0900	0.29	
" 27 0900	" 29 0900	NIL	
Monthly Mean :-		0.07	
Maximum :-		0.29	



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

Month: Sep. Year: 1979

Location of Sampling Point:- Lat. 22° 19' N.  
 Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
			01				
01	10	15	02	09	10	NIL	
02	09	15	03	09	30	0.16	
03	09	35	04	09	05	0.16	
04	09	10	05	09	20	<del>0.27</del> 0.27	
05	09	25	06	09	05	0.21	
06	09	10	07	09	30	0.45	
07	09	35	08	09	05	0.12	
08	09	10	09	09	05	0.21	
09	09	10	10	10	00	0.45	
10	10	05	11	09	30	NIL	
11	09	55	12	09	30	NIL	
12	09	35	13	09	15	NIL	
13	09	20	14	09	05	<del>0.46</del> 0.46	
14	09	10	15	09	30	NIL	
15	09	35	16	09	05	NIL	
16	09	10	17	09	00	NIL	
17	09	05	18	09	05	0.55	
18	09	07	19	10	05	0.74	
19	10	10	20	09	15	0.74	
20	09	20	21	09	55	0.09	
21	10	00	22	09	10	0.77	
22	09	15	23	09	05	NIL	
23	09	10	24	00	00	0.37	
24	09	05	25	09	30	NIL	
25	09	35	26	09	15	NIL	
26	09	20	27	09	10	0.79	
27	09	15	28	09	10	NIL	
28	09	15	29	09	45	0.66	
29	09	50	30	09	35	NIL	
30	09	40	31	09	15	NIL	

Monthly Mean:-

0.22

Maximum :-

0.79

Beta-Radiactivity of Airborne Dust Near the Earth's Surface  
(See also (2) for details)

Month: Oct Year: 1979

Location of Sampling Point: ...  
Date: ...

Date	Hour	Min.	Time of Sampling		Amount of sample Radioactivity per m <sup>3</sup> of air	Remarks
			Start	End		
01	00	00				
01	00	00				
02	00	00				
03	00	00				
04	00	00				
05	00	00				
06	00	00				
07	00	00				
08	00	00				
09	00	00				
10	00	00				
11	00	00				
12	00	00				
13	00	00				
14	00	00				
15	00	00				
16	00	00				
17	00	00				
18	00	00				
19	00	00				
20	00	00				
21	00	00				
22	00	00				
23	00	00				
24	00	00				
25	00	00				
26	00	00				
27	00	00				
28	00	00				
29	00	00				
30	00	00				
31	00	00				
			Monthly Mean:-		0.16	
			Maximum :-		0.87	

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

OCT 79

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

Month: Oct. Year: 1979

Location of Sampling Point:-  
 Lat. 22° 19' N.  
 Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
30	09	40	01	09	15	NIL	
01	09	20	02	09	05	NIL	
02	09	10	03	09	05	<del>NIL</del> *	
03	09	10	04	09	15	0.06	
04	09	20	05	09	10	NIL	
05	09	15	06	09	05	0.41	
06	09	10	07	09	02	0.10	
07	09	10	08	09	05	0.02	
08	09	10	09	09	05	0.07	
09	09	10	10	09	10	0.76	
10	09	15	11	10	10	0.62	
11	10	16	12	09	15	0.12	
12	09	20	13	09	50	0.24	
13	09	55	14	09	15	0.35	
14	09	20	15	09	20	0.20	
15	09	25	16	09	15	0.67	
16	09	20	17	09	05	NIL	
17	09	10	18	09	10	NIL	
18	09	15	19	09	15	0.15	
19	09	20	20	10	00	2.40 <sup>15</sup>	
20	10	05	21	09	55	NIL	
21	10	20	22	09	10	NIL	
22	09	15	23	09	00	NIL	
23	09	05	24	09	45	0.87	
24	09	50	25	09	10	NIL	
25	09	15	26	09	05	NIL	
26	09	10	27	09	15	NIL	
27	09	20	28	09	15	0.14	
28	09	20	29	09	10	NIL	
29	09	15	30	09	30	NIL	
30	09	35	31	09	55	NIL	
Monthly Mean:-						0.16	
Maximum :-						0.87	



Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : Oct. Year : 1979

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

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
01 09 00	03 09 00	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
03 09 00	05 09 00	0.17	
05 09 00	07 09 00	0.13	
07 09 00	09 09 00	NIL	
09 09 00	11 09 00	NIL	
11 09 00	13 09 00	NIL	
13 09 00	15 09 00	0.19	
15 09 00	17 09 00	0.05	
17 09 00	19 09 00	NIL	
19 09 00	21 09 00	NIL	
21 09 00	23 09 00	NIL	
23 09 00	25 09 00	NIL	
25 09 00	27 09 00	NIL	
27 09 00	29 09 00	0.09	
29 09 00	31 09 00	NIL	
Monthly Mean :-		0.04	
Maximum :-		0.19	

# Beta-Radioactivity of Rainwater

Month: Oct.

Year: 1979

Date of Sampling		Amount of water Sample cm <sup>3</sup>	Amount of Radioactivity pCi/cm <sup>3</sup>	Remarks
Start	End			
				Collecting period 24 hours from 0800 H.K. St. Time to 0800 H.K. St. Time approx.

Monthly mean: 0.16  
 Standard deviation: 0.87

Month: NOV Year: 1979

Location of Sampling Point: Royal Observatory

Latitude: 22° 19' N Longitude: 114° 15' E

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

NOV 79

Date	Hour	Min.	Time of Sampling (min)		Remarks
			Start	End	
01	10	00	01	02	
02	10	00	01	02	
03	10	00	01	02	
04	10	00	01	02	
05	10	00	01	02	
06	10	00	01	02	
07	10	00	01	02	
08	10	00	01	02	
09	10	00	01	02	
10	10	00	01	02	
11	10	00	01	02	
12	10	00	01	02	
13	10	00	01	02	
14	10	00	01	02	
15	10	00	01	02	
16	10	00	01	02	
17	10	00	01	02	
18	10	00	01	02	
19	10	00	01	02	
20	10	00	01	02	
21	10	00	01	02	
22	10	00	01	02	
23	10	00	01	02	
24	10	00	01	02	
25	10	00	01	02	
26	10	00	01	02	
27	10	00	01	02	
28	10	00	01	02	
29	10	00	01	02	
30	10	00	01	02	
Monthly Mean: 0.18					
Maximum: 0.24					



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

Month: NOV.Year: 1979

Location of Sampling Point:-

Lat. 22° 19' N.Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
31	10	00	01	10	15	0.69	
01	10	20	02	09	25	0.29	
02	09	30	03	09	30	0.21	
03	09	35	04	09	05	NIL	
04	09	10	05	08	45	NIL	
05	08	50	06	09	15	0.71	0.72
06	09	20	07	09	05	0.39	
07	09	10	08	09	30	0.25	
08	09	35	09	09	05	NIL	
09	09	10	10	08	50	NIL	
10	08	55	11	09	20	NIL	
11	09	25	12	09	05	NIL	
12	09	10	13	08	50	NIL	
13	08	55	14	08	50	NIL	
14	08	55	15	09	25	0.56	
15	09	30	16	09	05	0.74	1.00
16	09	10	17	09	35	0.07	
17	09	40	18	09	10	NIL	
18	09	15	19	08	50	0.09	
19	08	55	20	09	35	0.28	
20	09	40	21	09	30	NIL	
21	09	35	22	08	55	NIL	
22	09	00	23	08	50	NIL	
23	08	55	24	09	10	0.59	
24	09	15	25	09	05	NIL	
25	09	10	26	09	20	0.25	
26	09	25	27	09	10	0.14	
27	09	15	28	08	45	NIL	
28	08	50	29	09	30	0.24	
29	09	35	30	09	30	NIL	
30	09	35	31				
Monthly Mean:-						0.18	
Maximum :-						0.74	

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : NOV Year : 1979

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

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
OCT 31	NOV 02	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
02	04	NIL	
04	06	0.08	
06	08	0.05	
08	10	0.09	
10	12	0.09	
12	14	NIL	
14	16	0.16	
16	18	0.05	
18	20	0.01	
20	22	NIL	
22	24	NIL	
24	26	0.15	
26	28	0.22	
28	30	NIL	
30			
Monthly Mean :-		0.06	
Maximum :-		0.22	

### Beta-Radioactivity of Rainwater

Month: NOV

Year: 1979

Date of Sampling		Amount of water Sample cm <sup>3</sup>	Amount of Radioactivity pCi/cm <sup>3</sup>	Remarks
Start	End			
020800	030800	206	NIL	Collecting period 24 hours from 0800 H.K. St. Time to 0800 H.K. St. Time approx.
030800	050800	250	0.01	

Maximum: 0.01



Month: DECEMBER ( ) Year: 1979  
 Location of Sampling Point: Lat. 22° 19' N, Long. 114° 10' E

# RADIOACTIVITY BULLETIN

## ROYAL OBSERVATORY

### HONG KONG

Dec 1979

Date	Hour	Min.	Time of Sampling		Remarks
			Start	End	
30	00	00	00	00	
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	
31	00	00	00	00	

Monthly Mean: 0.13  
 Maximum: 0.63

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

Month: DECEMBERYear: 1979Lat. 22° 19' N.

Location of Sampling Point:-

Long. 114° 10' E.

Time of Sampling						Amount of Radioactivity pCi/m <sup>3</sup> of air	Remarks
Start			End				
Date	Hour	Min.	Date	Hour	Min.		
30	09	35	01	08	55	NIL	
01	09	00	02	09	00	NIL	
02	09	05	03	09	25	NIL	
03	09	30	04	09	00	0.36	
04	09	05	05	09	15	0.09	
05	09	20	06	09	00	NIL	
06	09	05	07	08	30	0.04	
07	08	35	08	09	30	0.40	
08	09	35	09	09	00	0.26	
09	09	05	10	08	45	0.63	
10	08	50	11	08	50	0.02	
11	08	55	12	09	00	0.07	
12	09	05	13	09	10	NIL	
13	09	15	14	09	00	0.20	
14	09	05	15	08	45	NIL	
15	09	50	16	09	05	0.49	
16	09	10	17	09	35	0.41	
17	09	40	18	09	30	NIL	
18	09	35	19	08	55	NIL	
19	09	00	20	08	25	NIL	
20	08	30	21	09	00	NIL	
21	09	05	22	09	00	0.17	
22	09	05	23	09	00	NIL	
23	09	05	24	09	10	NIL	
24	09	15	25	08	55	NIL	
25	09	00	26	09	40	0.19	
26	09	45	27	08	55	NIL	
27	09	00	28	09	15	NIL	
28	09	20	29	08	25	0.46	
29	08	30	30	08	55	0.26	
30	09	00	31	09	00	0.08	
Monthly Mean:-						0.13	
Maximum :-						0.63	

Beta-Radioactivity of Total Deposition (Dry and Wet)

Month : DECEMBER Year : 1979

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

Long. 114° 10' E.

Date of Sampling		Amount of Radioactivity mCi/Km <sup>2</sup>	Remarks
Start	End		
NOV 30	DEC 02	NIL	Collecting period 48 hours from 0800 H.K. Time to 0800 H.K. Time approx.
DEC 02	" 04	0.01	
" 04	" 06	0.05	
" 06	" 08	0.09	
" 08	" 10	0.12	
" 10	" 12	0.04	
" 12	" 14	NIL	
" 14	" 16	0.10	
" 16	" 18	0.01	
" 18	" 20	0.05	
" 20	" 22	0.13	
" 22	" 24	0.01	
" 24	" 26	0.11	
" 26	" 28	NIL	
" 28	" 30	0.05	
#			
Monthly Mean :-		0.05	
Maximum :-		0.13	



