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TITTEL

DURATION STATISTICS FOR Hs AT FRIGG

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OPPDRAGSNR. 010210/BC5118

SAMMENDRAG

Duration statistics for occurrences of Hs > 2 m, 3m, 4m, 5m and 6 m are prepared as well as for Hs < 2m, 3m, 4m, 5m and 6m. The results are given as tables. The tables are given for each month and each season.

UNDERSKRIFT

Helle Tønnessen.....

Helle Tønnessen
SAKSBEHANDLER

Bjørn Aune.....

Bjørn Aune
FAGSJEF

DURATION STATISTICS FOR Hs AT FRIGG

1. The dataserieis applied.

The wave data are measured each 3 hour and are primarily from the QP platform at Frigg. The dataserieis applied cover the period 1 Jan. 1979 - 31 Dec. 1986. For the duration statistics, complete dataserieis is a necessity. The other installations at Frigg may have wave measurements when they are missing at the QP platform. These data are therefore merged into the dataserieis for the QP platform, after the following priority : DP2, TCP2, TP1 and CDP1. The locations of the platforms are given in fig.1. The data from the QP platform are 18 min values and from the other platforms 40 min values. From the platforms other than QP, the data are Hmo values.

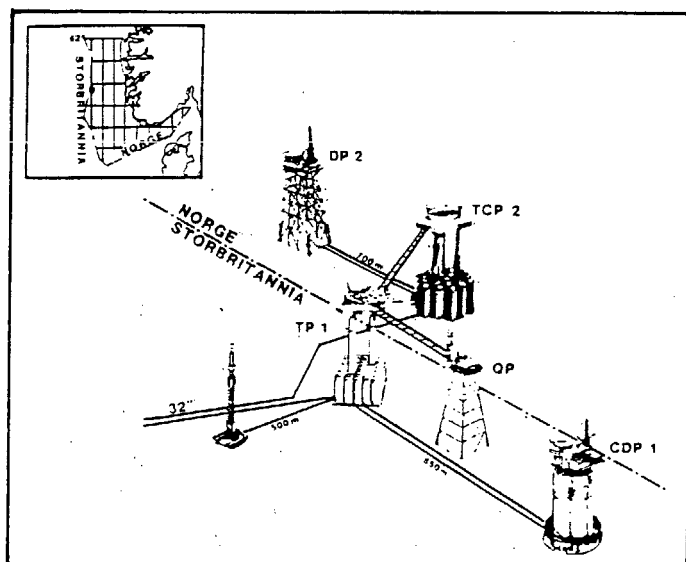


Fig. 1 The oil installations at the Frigg field.

2. The results

On the following pages, the results are given as tables. There is two tables for each month. One giving duration statistics for occurences of $H_s > 2m, 3m, 4m, 5m$ and $6m$, and the other giving the duration statistics for occurences of $H_s \leq 2m, 3m, 4m, 5m$, and $6m$.

At last, the same type of tables are given for each season and also for the year as a whole.

When counting events, the following rules are applied :

- A) If the dataserieis starts with an event, this event is not counted
- B) If the dataserieis ends with an event, this event is not

counted

- C) An observation of Hs is taken valid for a duration of 3 hours, by definition.
- D) The startpoint of the events is used for the sorting on months.

MONTHLY VALUES

DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: JAN 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION. P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)																		
	20				30				40				50				60		
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	13	59	*	20	81	*	15	59	*	13	39	*	13	25	*			
6	*	7	52	*	11	70	*	11	48	*	8	31	*	9	16	*			
9	*	4	48	*	11	59	*	4	44	*	5	26	*	1	15	*			
12	*	4	44	*	11	48	*	9	35	*	1	25	*	4	11	*			
15	*	3	41	*	2	46	*	1	34	*	6	19	*	2	9	*			
18	*	3	38	*	7	39	*	6	28	*	3	16	*	4	5	*			
21	*	0	38	*	6	33	*	6	22	*	4	12	*	2	3	*			
24	*	2	36	*	4	29	*	4	18	*	2	10	*	1	2	*			
27	*	1	35	*	4	25	*	3	15	*	0	10	*	1	1	*			
30	*	1	34	*	3	22	*	0	15	*	3	7	*	0	1	*			
33	*	2	32	*	3	19	*	1	14	*	2	5	*	0	1	*			
36	*	4	28	*	1	18	*	1	13	*	2	3	*	0	1	*			
39	*	0	28	*	2	16	*	1	12	*	0	3	*	1	0	*			
42	*	1	27	*	1	15	*	3	9	*	0	3	*	0	0	*			
45	*	1	26	*	3	12	*	1	8	*	2	1	*	0	0	*			
48	*	3	23	*	1	11	*	0	8	*	1	0	*	0	0	*			
51	*	1	22	*	0	11	*	0	8	*	0	0	*	0	0	*			
54	*	0	22	*	0	11	*	3	5	*	0	0	*	0	0	*			
57	*	0	22	*	0	11	*	1	4	*	0	0	*	0	0	*			
60	*	0	22	*	0	11	*	1	3	*	0	0	*	0	0	*			
63	*	1	21	*	0	11	*	1	2	*	0	0	*	0	0	*			
66	*	1	20	*	0	11	*	1	1	*	0	0	*	0	0	*			
69	*	1	19	*	2	9	*	0	1	*	0	0	*	0	0	*			
72	*	2	17	*	0	9	*	0	1	*	0	0	*	0	0	*			
75	*	0	17	*	0	9	*	0	1	*	0	0	*	0	0	*			
78	*	0	17	*	0	9	*	1	0	*	0	0	*	0	0	*			
81	*	2	15	*	1	8	*	0	0	*	0	0	*	0	0	*			
84	*	1	14	*	0	8	*	0	0	*	0	0	*	0	0	*			
87-96	*	1	13	*	1	7	*	0	0	*	0	0	*	0	0	*			
99-108	*	3	10	*	3	4	*	0	0	*	0	0	*	0	0	*			
111-120	*	1	9	*	0	4	*	0	0	*	0	0	*	0	0	*			
123-132	*	1	8	*	0	4	*	0	0	*	0	0	*	0	0	*			
135-144	*	2	6	*	1	3	*	0	0	*	0	0	*	0	0	*			
147-156	*	1	5	*	1	2	*	0	0	*	0	0	*	0	0	*			
159-168	*	0	5	*	0	2	*	0	0	*	0	0	*	0	0	*			
171-180	*	0	5	*	0	2	*	0	0	*	0	0	*	0	0	*			
183-192	*	0	5	*	1	1	*	0	0	*	0	0	*	0	0	*			
195-204	*	0	5	*	0	1	*	0	0	*	0	0	*	0	0	*			
207-216	*	2	3	*	0	1	*	0	0	*	0	0	*	0	0	*			
219-228	*	1	2	*	0	1	*	0	0	*	0	0	*	0	0	*			
231-240	*	0	2	*	0	1	*	0	0	*	0	0	*	0	0	*			
243-252	*	0	2	*	0	1	*	0	0	*	0	0	*	0	0	*			
255-264	*	0	2	*	0	1	*	0	0	*	0	0	*	0	0	*			
267-276	*	0	2	*	1	0	*	0	0	*	0	0	*	0	0	*			
279-288	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*			
291-300	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*			
303-312	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*			
315-324	*	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*			
327-336	*	1	0	*	0	0	*	0	0	*	0	0	*	0	0	*			
339-348	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*			
=>351	*	0		*	0		*	0		*	0		*	0		*			
SUM	*	72		*	101		*	74		*	52		*	38		*			
MEAN(HRS)	*	52.8		*	27.1		*	19.5		*	15.1		*	10.1		*			
ST.DEV(HRS)	*	69.1		*	40.4		*	18.2		*	12.5		*	8.4		*			

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N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	*	20	52	*	26	76	*	12	64	*	9	45	*	6	34	*
6	*	6	46	*	7	69	*	3	61	*	3	42	*	3	31	*
9	*	9	37	*	10	59	*	4	57	*	3	39	*	1	30	*
12	*	7	30	*	5	54	*	3	54	*	1	38	*	1	29	*
15	*	4	26	*	8	46	*	1	53	*	1	37	*	0	29	*
18	*	3	23	*	1	45	*	6	47	*	2	35	*	1	28	*
21	*	3	20	*	5	40	*	3	44	*	2	33	*	1	27	*
24	*	3	17	*	4	36	*	2	42	*	0	33	*	1	26	*
27	*	0	17	*	3	33	*	5	37	*	0	33	*	0	26	*
30	*	3	14	*	2	31	*	1	36	*	1	32	*	0	26	*
33	*	1	13	*	1	30	*	2	34	*	1	31	*	0	26	*
36	*	0	13	*	3	27	*	2	32	*	0	31	*	3	23	*
39	*	0	13	*	1	26	*	1	31	*	2	29	*	0	23	*
42	*	0	13	*	4	22	*	1	30	*	0	29	*	1	22	*
45	*	2	11	*	1	21	*	0	30	*	1	28	*	1	21	*
48	*	1	10	*	2	19	*	2	28	*	0	28	*	0	21	*
51	*	0	10	*	0	19	*	0	28	*	0	28	*	2	19	*
54	*	1	9	*	1	18	*	3	25	*	0	28	*	0	19	*
57	*	2	7	*	0	18	*	0	25	*	2	26	*	0	19	*
60	*	2	5	*	0	18	*	0	25	*	2	24	*	0	19	*
63	*	1	4	*	1	17	*	2	23	*	0	24	*	1	18	*
66	*	1	3	*	1	16	*	1	22	*	1	23	*	1	17	*
69	*	0	3	*	0	16	*	0	22	*	3	20	*	1	16	*
72	*	0	3	*	1	15	*	1	21	*	0	20	*	0	16	*
75	*	0	3	*	2	13	*	0	21	*	0	20	*	1	15	*
78	*	0	3	*	3	10	*	3	18	*	0	20	*	1	14	*
81	*	0	3	*	1	9	*	0	18	*	0	20	*	0	14	*
84	*	0	3	*	1	8	*	2	16	*	0	20	*	0	14	*
87-96	*	2	1	*	4	4	*	4	12	*	1	19	*	0	14	*
99-108	*	0	1	*	0	4	*	1	11	*	1	18	*	0	14	*
111-120	*	0	1	*	0	4	*	3	8	*	4	14	*	2	12	*
123-132	*	1	0	*	2	2	*	1	7	*	2	12	*	0	12	*
135-144	*	0	0	*	0	2	*	1	6	*	3	9	*	1	11	*
147-156	*	0	0	*	0	2	*	0	6	*	0	9	*	0	11	*
159-168	*	0	0	*	0	2	*	0	6	*	1	8	*	1	10	*
171-180	*	0	0	*	0	2	*	0	6	*	0	8	*	0	10	*
183-192	*	0	0	*	1	1	*	0	6	*	1	7	*	3	7	*
195-204	*	0	0	*	0	1	*	1	5	*	1	6	*	0	7	*
207-216	*	0	0	*	0	1	*	0	5	*	0	6	*	1	6	*
219-228	*	0	0	*	0	1	*	0	5	*	0	6	*	0	6	*
231-240	*	0	0	*	0	1	*	0	5	*	0	6	*	0	6	*
243-252	*	0	0	*	0	1	*	0	5	*	0	6	*	0	6	*
255-264	*	0	0	*	1	0	*	0	5	*	0	6	*	0	6	*
267-276	*	0	0	*	0	0	*	0	5	*	1	5	*	0	6	*
279-288	*	0	0	*	0	0	*	1	4	*	0	5	*	0	6	*
291-300	*	0	0	*	0	0	*	1	3	*	1	4	*	0	6	*
303-312	*	0	0	*	0	0	*	0	3	*	0	4	*	0	6	*
315-324	*	0	0	*	0	0	*	0	3	*	0	4	*	1	5	*
327-336	*	0	0	*	0	0	*	0	3	*	0	4	*	0	5	*
339-348	*	0	0	*	0	0	*	0	3	*	0	4	*	0	5	*
=>351	*	0	0	*	0	0	*	3	0	*	4	0	*	5	0	*
SUM	*	72		*	102		*	76		*	54		*	40		*
MEAN(HRS)	*	20.9		*	30.4		*	63.7		*	99.5		*	134.0		*
ST.DEV(HRS)	*	25.0		*	40.2		*	95.9		*	146.0		*	218.3		*

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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 0313 OSLO 3, NORWAY.

DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: FEB 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	*	13	58	*	11	59	*	16	32	*	5	27	*	11	11	*
6	*	5	53	*	12	47	*	3	29	*	7	20	*	4	7	*
9	*	8	45	*	3	44	*	7	22	*	3	17	*	3	4	*
12	*	2	43	*	7	37	*	2	20	*	7	10	*	1	3	*
15	*	1	42	*	3	34	*	3	17	*	0	10	*	0	3	*
18	*	3	39	*	4	30	*	1	16	*	3	7	*	0	3	*
21	*	3	36	*	3	27	*	4	12	*	0	7	*	2	1	*
24	*	1	35	*	5	22	*	0	12	*	2	5	*	0	1	*
27	*	3	32	*	1	21	*	1	11	*	1	4	*	0	1	*
30	*	1	31	*	2	19	*	3	8	*	1	3	*	1	0	*
33	*	1	30	*	1	18	*	0	8	*	0	3	*	0	0	*
36	*	1	29	*	1	17	*	0	8	*	1	2	*	0	0	*
39	*	2	27	*	2	15	*	1	7	*	1	1	*	0	0	*
42	*	2	25	*	0	15	*	1	6	*	1	0	*	0	0	*
45	*	4	21	*	0	15	*	1	5	*	0	0	*	0	0	*
48	*	1	20	*	2	13	*	0	5	*	0	0	*	0	0	*
51	*	3	17	*	0	13	*	0	5	*	0	0	*	0	0	*
54	*	0	17	*	0	13	*	1	4	*	0	0	*	0	0	*
57	*	0	17	*	1	12	*	2	2	*	0	0	*	0	0	*
60	*	1	16	*	1	11	*	0	2	*	0	0	*	0	0	*
63	*	1	15	*	1	10	*	0	2	*	0	0	*	0	0	*
66	*	0	15	*	2	8	*	0	2	*	0	0	*	0	0	*
69	*	0	15	*	1	7	*	0	2	*	0	0	*	0	0	*
72	*	0	15	*	2	5	*	0	2	*	0	0	*	0	0	*
75	*	1	14	*	0	5	*	1	1	*	0	0	*	0	0	*
78	*	0	14	*	1	4	*	0	1	*	0	0	*	0	0	*
81	*	2	12	*	0	4	*	0	1	*	0	0	*	0	0	*
84	*	1	11	*	0	4	*	0	1	*	0	0	*	0	0	*
87-96	*	3	8	*	0	4	*	0	1	*	0	0	*	0	0	*
99-108	*	1	7	*	0	4	*	1	0	*	0	0	*	0	0	*
111-120	*	1	6	*	2	2	*	0	0	*	0	0	*	0	0	*
123-132	*	0	6	*	1	1	*	0	0	*	0	0	*	0	0	*
135-144	*	2	4	*	0	1	*	0	0	*	0	0	*	0	0	*
147-156	*	0	4	*	0	1	*	0	0	*	0	0	*	0	0	*
159-168	*	1	3	*	1	0	*	0	0	*	0	0	*	0	0	*
171-180	*	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	1	0	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	0		*	0		*	0		*	0		*	0		*
SUM	*	71		*	70		*	48		*	32		*	22		*
MEAN(HRS)	*	42.3		*	28.0		*	18.6		*	13.9		*	7.6		*
ST.DEV(HRS)	*	48.9		*	32.3		*	21.5		*	10.8		*	7.2		*

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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: FEB 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*				
3	*	22	51	*	16	54	*	10	38	*	7	25	*	4	17	*
6	*	8	43	*	3	51	*	1	37	*	3	22	*	0	17	*
9	*	1	42	*	2	49	*	2	35	*	1	21	*	1	16	*
12	*	7	35	*	3	46	*	1	34	*	2	19	*	0	16	*
15	*	4	31	*	1	45	*	1	33	*	0	19	*	0	16	*
18	*	1	30	*	2	43	*	1	32	*	0	19	*	1	15	*
21	*	2	28	*	2	41	*	0	32	*	0	19	*	0	15	*
24	*	5	23	*	3	38	*	0	32	*	0	19	*	0	15	*
27	*	0	23	*	3	35	*	2	30	*	0	19	*	0	15	*
30	*	3	20	*	0	35	*	1	29	*	0	19	*	0	15	*
33	*	0	20	*	2	33	*	4	25	*	1	18	*	0	15	*
36	*	1	19	*	2	31	*	1	24	*	0	18	*	0	15	*
39	*	2	17	*	2	29	*	2	22	*	1	17	*	0	15	*
42	*	0	17	*	0	29	*	1	21	*	1	16	*	1	14	*
45	*	3	14	*	2	27	*	0	21	*	1	15	*	0	14	*
48	*	1	13	*	1	26	*	1	20	*	0	15	*	0	14	*
51	*	2	11	*	1	25	*	0	20	*	0	15	*	0	14	*
54	*	0	11	*	3	22	*	0	20	*	0	15	*	2	12	*
57	*	1	10	*	1	21	*	0	20	*	0	15	*	0	12	*
60	*	1	9	*	3	18	*	0	20	*	1	14	*	0	12	*
63	*	1	8	*	1	17	*	0	20	*	1	13	*	0	12	*
66	*	0	8	*	1	16	*	0	20	*	0	13	*	0	12	*
69	*	0	8	*	1	15	*	2	18	*	0	13	*	0	12	*
72	*	2	6	*	0	15	*	0	18	*	0	13	*	0	12	*
75	*	0	6	*	0	15	*	0	18	*	0	13	*	0	12	*
78	*	0	6	*	0	15	*	1	17	*	0	13	*	0	12	*
81	*	2	4	*	1	14	*	0	17	*	0	13	*	0	12	*
84	*	0	4	*	0	14	*	1	16	*	0	13	*	0	12	*
87-96	*	0	4	*	3	11	*	1	15	*	0	13	*	0	12	*
99-108	*	0	4	*	1	10	*	1	14	*	1	12	*	0	12	*
111-120	*	0	4	*	2	8	*	2	12	*	1	11	*	0	12	*
123-132	*	1	3	*	1	7	*	0	12	*	1	10	*	0	12	*
135-144	*	1	2	*	1	6	*	0	12	*	0	10	*	0	12	*
147-156	*	0	2	*	0	6	*	0	12	*	0	10	*	0	12	*
159-168	*	1	1	*	1	5	*	2	10	*	0	10	*	0	12	*
171-180	*	1	0	*	0	5	*	2	8	*	1	9	*	0	12	*
183-192	*	0	0	*	0	5	*	0	8	*	1	8	*	0	12	*
195-204	*	0	0	*	2	3	*	1	7	*	0	8	*	0	12	*
207-216	*	0	0	*	0	3	*	3	4	*	0	8	*	2	10	*
219-228	*	0	0	*	1	2	*	0	4	*	0	8	*	1	9	*
231-240	*	0	0	*	1	1	*	0	4	*	1	7	*	0	9	*
243-252	*	0	0	*	1	0	*	0	4	*	0	7	*	0	9	*
255-264	*	0	0	*	0	0	*	1	3	*	0	7	*	1	8	*
267-276	*	0	0	*	0	0	*	0	3	*	1	6	*	1	7	*
279-288	*	0	0	*	0	0	*	1	2	*	0	6	*	0	7	*
291-300	*	0	0	*	0	0	*	0	2	*	0	6	*	0	7	*
303-312	*	0	0	*	0	0	*	0	2	*	2	4	*	0	7	*
315-324	*	0	0	*	0	0	*	0	2	*	0	4	*	0	7	*
327-336	*	0	0	*	0	0	*	0	2	*	0	4	*	1	6	*
339-348	*	0	0	*	0	0	*	1	1	*	0	4	*	1	5	*
=>351	*	0		*	0		*	1		*	4		*	5		*
SUM	*	73		*	70		*	48		*	32		*	21		*
MEAN(HRS)	*	27.9		*	51.3		*	83.9		*	125.8		*	269.3		*
ST.DEV(HRS)	*	37.1		*	59.8		*	96.4		*	165.3		*	304.8		*

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N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	17	*	56	*	22	*	62	*	18	*	53	*	23	*	28
6	*	7	*	49	*	7	*	55	*	10	*	43	*	8	*	20
9	*	0	*	49	*	6	*	49	*	5	*	38	*	6	*	14
12	*	5	*	44	*	3	*	46	*	2	*	36	*	4	*	10
15	*	2	*	42	*	2	*	44	*	7	*	29	*	3	*	7
18	*	3	*	39	*	2	*	42	*	6	*	23	*	3	*	4
21	*	0	*	39	*	6	*	36	*	7	*	16	*	1	*	3
24	*	1	*	38	*	2	*	34	*	1	*	15	*	2	*	1
27	*	2	*	36	*	4	*	30	*	2	*	13	*	1	*	0
30	*	1	*	35	*	2	*	28	*	2	*	11	*	0	*	0
33	*	2	*	33	*	6	*	22	*	4	*	7	*	0	*	0
36	*	2	*	31	*	2	*	20	*	1	*	6	*	0	*	0
39	*	1	*	30	*	1	*	19	*	0	*	6	*	0	*	0
42	*	0	*	30	*	0	*	19	*	1	*	5	*	0	*	0
45	*	2	*	28	*	2	*	17	*	1	*	4	*	0	*	0
48	*	2	*	26	*	1	*	16	*	1	*	3	*	0	*	0
51	*	2	*	24	*	0	*	16	*	0	*	3	*	0	*	0
54	*	0	*	24	*	3	*	13	*	0	*	3	*	0	*	0
57	*	1	*	23	*	1	*	12	*	1	*	2	*	0	*	0
60	*	1	*	22	*	2	*	10	*	1	*	1	*	0	*	0
63	*	0	*	22	*	0	*	10	*	1	*	0	*	0	*	0
66	*	0	*	22	*	2	*	8	*	0	*	0	*	0	*	0
69	*	2	*	20	*	2	*	6	*	0	*	0	*	0	*	0
72	*	0	*	20	*	0	*	6	*	0	*	0	*	0	*	0
75	*	0	*	20	*	0	*	6	*	0	*	0	*	0	*	0
78	*	2	*	18	*	0	*	6	*	0	*	0	*	0	*	0
81	*	3	*	15	*	0	*	6	*	0	*	0	*	0	*	0
84	*	0	*	15	*	0	*	6	*	0	*	0	*	0	*	0
87- 96	*	1	*	14	*	1	*	5	*	0	*	0	*	0	*	0
99-108	*	3	*	11	*	4	*	1	*	0	*	0	*	0	*	0
111-120	*	2	*	9	*	0	*	1	*	0	*	0	*	0	*	0
123-132	*	0	*	9	*	1	*	0	*	0	*	0	*	0	*	0
135-144	*	0	*	9	*	0	*	0	*	0	*	0	*	0	*	0
147-156	*	1	*	8	*	0	*	0	*	0	*	0	*	0	*	0
159-168	*	2	*	6	*	0	*	0	*	0	*	0	*	0	*	0
171-180	*	2	*	4	*	0	*	0	*	0	*	0	*	0	*	0
183-192	*	0	*	4	*	0	*	0	*	0	*	0	*	0	*	0
195-204	*	1	*	3	*	0	*	0	*	0	*	0	*	0	*	0
207-216	*	1	*	2	*	0	*	0	*	0	*	0	*	0	*	0
219-228	*	1	*	1	*	0	*	0	*	0	*	0	*	0	*	0
231-240	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0
243-252	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0
255-264	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0
267-276	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0
279-288	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0
291-300	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0
303-312	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0
315-324	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0
327-336	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0
339-348	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0
=>351	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0

SUM	*	73	*	84	*	71	*	51	*	19	*
MEAN(HRS)	*	53.1	*	27.3	*	16.4	*	8.1	*	6.6	*
ST.DEV(HRS)	*	64.4	*	28.9	*	14.6	*	6.5	*	5.0	*

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: MARCH 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20			30			40			50			60			
	* N	P	* N	P	* N	P	* N	P	* N	P	* N	P	* N	P	*	
3	* 22	54	* 17	70	* 10	62	* 9	43	* 1	19	*				*	
6	* 7	47	* 8	62	* 7	55	* 2	41	* 0	19	*				*	
9	* 7	40	* 4	58	* 4	51	* 0	41	* 0	19	*				*	
12	* 5	35	* 2	56	* 3	48	* 1	40	* 1	18	*				*	
15	* 1	34	* 5	51	* 1	47	* 2	38	* 0	18	*				*	
18	* 5	29	* 5	46	* 1	46	* 2	36	* 0	18	*				*	
21	* 2	27	* 5	41	* 2	44	* 1	35	* 0	18	*				*	
24	* 0	27	* 2	39	* 3	41	* 1	34	* 1	17	*				*	
27	* 1	26	* 1	38	* 3	38	* 1	33	* 0	17	*				*	
30	* 4	22	* 0	38	* 0	38	* 1	32	* 0	17	*				*	
33	* 0	22	* 2	36	* 1	37	* 0	32	* 0	17	*				*	
36	* 1	21	* 2	34	* 0	37	* 0	32	* 0	17	*				*	
39	* 3	18	* 1	33	* 3	34	* 0	32	* 0	17	*				*	
42	* 4	14	* 2	31	* 0	34	* 2	30	* 0	17	*				*	
45	* 1	13	* 3	28	* 0	34	* 2	28	* 0	17	*				*	
48	* 1	12	* 2	26	* 2	32	* 0	28	* 0	17	*				*	
51	* 0	12	* 1	25	* 0	32	* 0	28	* 0	17	*				*	
54	* 1	11	* 2	23	* 0	32	* 0	28	* 2	15	*				*	
57	* 0	11	* 1	22	* 1	31	* 1	27	* 0	15	*				*	
60	* 1	10	* 1	21	* 0	31	* 0	27	* 0	15	*				*	
63	* 1	9	* 0	21	* 0	31	* 1	26	* 0	15	*				*	
66	* 0	9	* 1	20	* 0	31	* 0	26	* 0	15	*				*	
69	* 1	8	* 0	20	* 1	30	* 0	26	* 0	15	*				*	
72	* 0	8	* 2	18	* 0	30	* 0	26	* 0	15	*				*	
75	* 0	8	* 0	18	* 3	27	* 0	26	* 0	15	*				*	
78	* 1	7	* 0	18	* 1	26	* 2	24	* 0	15	*				*	
81	* 0	7	* 3	15	* 1	25	* 0	24	* 0	15	*				*	
84	* 0	7	* 2	13	* 0	25	* 0	24	* 1	14	*				*	
87-96	* 0	7	* 1	12	* 4	21	* 1	23	* 1	13	*				*	
99-108	* 1	6	* 1	11	* 3	18	* 1	22	* 0	13	*				*	
111-120	* 3	3	* 2	9	* 2	16	* 0	22	* 0	13	*				*	
123-132	* 1	2	* 4	5	* 2	14	* 2	20	* 0	13	*				*	
135-144	* 0	2	* 1	4	* 2	12	* 0	20	* 1	12	*				*	
147-156	* 1	1	* 0	4	* 1	11	* 1	19	* 0	12	*				*	
159-168	* 0	1	* 1	3	* 1	10	* 0	19	* 0	12	*				*	
171-180	* 0	1	* 0	3	* 0	10	* 1	18	* 0	12	*				*	
183-192	* 0	1	* 0	3	* 1	9	* 2	16	* 0	12	*				*	
195-204	* 1	0	* 0	3	* 0	9	* 3	13	* 0	12	*				*	
207-216	* 0	0	* 0	3	* 2	7	* 0	13	* 1	11	*				*	
219-228	* 0	0	* 0	3	* 0	7	* 1	12	* 0	11	*				*	
231-240	* 0	0	* 1	2	* 0	7	* 1	11	* 0	11	*				*	
243-252	* 0	0	* 0	2	* 0	7	* 2	9	* 0	11	*				*	
255-264	* 0	0	* 0	2	* 0	7	* 0	9	* 0	11	*				*	
267-276	* 0	0	* 0	2	* 0	7	* 0	9	* 0	11	*				*	
279-288	* 0	0	* 0	2	* 0	7	* 1	8	* 0	11	*				*	
291-300	* 0	0	* 1	1	* 1	6	* 0	8	* 0	11	*				*	
303-312	* 0	0	* 0	1	* 0	6	* 0	8	* 0	11	*				*	
315-324	* 0	0	* 0	1	* 0	6	* 0	8	* 0	11	*				*	
327-336	* 0	0	* 0	1	* 0	6	* 1	7	* 0	11	*				*	
339-348	* 0	0	* 0	1	* 0	6	* 0	7	* 0	11	*				*	
=>351	* 0		* 1		* 6		* 7		* 11		*				*	
SUM	* 76		* 87		* 72		* 52		* 20		*				*	
MEAN(HRS)	* 28.7		* 48.1		* 94.4		* 229.4		* 1015.9		*				*	
ST. DEV(HRS)	* 38.4		* 73.8		* 146.6		* 552.6		* 1643.0		*				*	

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CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	*	26	58	*	12	38	*	4	23	*	1	11	*	0	10	*
6	*	7	51	*	9	29	*	6	17	*	2	9	*	1	9	*
9	*	3	48	*	2	27	*	2	15	*	0	9	*	1	8	*
12	*	4	44	*	3	24	*	1	14	*	0	9	*	0	8	*
15	*	4	40	*	4	20	*	3	11	*	0	9	*	3	5	*
18	*	4	36	*	1	19	*	1	10	*	2	7	*	1	4	*
21	*	4	32	*	2	17	*	1	9	*	0	7	*	1	3	*
24	*	3	29	*	1	16	*	1	8	*	0	7	*	2	1	*
27	*	3	26	*	4	12	*	0	8	*	3	4	*	1	0	*
30	*	0	26	*	0	12	*	3	5	*	2	2	*	0	0	*
33	*	3	23	*	2	10	*	1	4	*	0	2	*	0	0	*
36	*	2	21	*	1	9	*	0	4	*	0	2	*	0	0	*
39	*	1	20	*	1	8	*	0	4	*	1	1	*	0	0	*
42	*	3	17	*	3	5	*	1	3	*	1	0	*	0	0	*
45	*	0	17	*	0	5	*	0	3	*	0	0	*	0	0	*
48	*	2	15	*	0	5	*	0	3	*	0	0	*	0	0	*
51	*	2	13	*	2	3	*	2	1	*	0	0	*	0	0	*
54	*	0	13	*	0	3	*	0	1	*	0	0	*	0	0	*
57	*	0	13	*	0	3	*	1	0	*	0	0	*	0	0	*
60	*	0	13	*	0	3	*	0	0	*	0	0	*	0	0	*
63	*	1	12	*	1	2	*	0	0	*	0	0	*	0	0	*
66	*	0	12	*	0	2	*	0	0	*	0	0	*	0	0	*
69	*	1	11	*	0	2	*	0	0	*	0	0	*	0	0	*
72	*	1	10	*	0	2	*	0	0	*	0	0	*	0	0	*
75	*	0	10	*	0	2	*	0	0	*	0	0	*	0	0	*
78	*	0	10	*	0	2	*	0	0	*	0	0	*	0	0	*
81	*	2	8	*	0	2	*	0	0	*	0	0	*	0	0	*
84	*	2	6	*	0	2	*	0	0	*	0	0	*	0	0	*
87-96	*	1	5	*	0	2	*	0	0	*	0	0	*	0	0	*
99-108	*	1	4	*	0	2	*	0	0	*	0	0	*	0	0	*
111-120	*	0	4	*	1	1	*	0	0	*	0	0	*	0	0	*
123-132	*	0	4	*	0	1	*	0	0	*	0	0	*	0	0	*
135-144	*	0	4	*	1	0	*	0	0	*	0	0	*	0	0	*
147-156	*	2	2	*	0	0	*	0	0	*	0	0	*	0	0	*
159-168	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
171-180	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	1	0	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	0		*	0		*	0		*	0		*	0		*
SUM	*	84		*	50		*	27		*	12		*	10		*
MEAN(HRS)	*	30.5		*	21.7		*	18.9		*	22.8		*	17.4		*
ST.DEV(HRS)	*	42.7		*	26.6		*	16.0		*	12.2		*	6.4		*

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DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: APRIL 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	22	60	10	37	2	22	0	9	0	7	*	*	*	*	*	*
6	6	54	3	34	2	20	0	9	0	7	*	*	*	*	*	*
9	5	49	1	33	0	20	0	9	0	6	*	*	*	*	*	*
12	3	46	1	32	0	20	0	9	0	6	*	*	*	*	*	*
15	3	43	2	30	0	20	0	9	0	6	*	*	*	*	*	*
18	3	40	0	30	0	20	0	9	0	6	*	*	*	*	*	*
21	2	38	1	29	1	19	0	9	0	6	*	*	*	*	*	*
24	3	35	1	28	0	19	0	9	0	6	*	*	*	*	*	*
27	2	33	1	27	2	17	0	9	0	6	*	*	*	*	*	*
30	3	30	1	26	2	15	1	8	0	6	*	*	*	*	*	*
33	2	28	1	25	0	15	0	8	1	5	*	*	*	*	*	*
36	2	26	0	25	1	14	0	8	0	5	*	*	*	*	*	*
39	1	25	1	24	2	12	0	8	0	5	*	*	*	*	*	*
42	0	25	2	22	0	12	1	7	0	5	*	*	*	*	*	*
45	0	25	1	21	0	12	0	7	0	5	*	*	*	*	*	*
48	1	24	0	21	0	12	0	7	0	5	*	*	*	*	*	*
51	0	24	0	21	0	12	0	7	0	5	*	*	*	*	*	*
54	1	23	0	21	0	12	0	7	0	5	*	*	*	*	*	*
57	5	18	0	21	0	12	0	7	0	5	*	*	*	*	*	*
60	0	18	1	20	0	12	0	7	1	4	*	*	*	*	*	*
63	0	18	0	20	0	12	0	7	0	4	*	*	*	*	*	*
66	1	17	1	19	0	12	0	7	0	4	*	*	*	*	*	*
69	1	16	0	19	0	12	0	7	0	4	*	*	*	*	*	*
72	1	15	0	19	0	12	0	7	0	4	*	*	*	*	*	*
75	0	15	0	19	0	12	0	7	0	4	*	*	*	*	*	*
78	1	14	0	19	0	12	0	7	0	4	*	*	*	*	*	*
81	1	13	0	19	0	12	0	7	0	4	*	*	*	*	*	*
84	2	11	1	18	0	12	0	7	0	4	*	*	*	*	*	*
87- 96	4	7	2	16	1	11	1	6	1	3	*	*	*	*	*	*
99-108	0	7	1	15	2	9	0	6	0	3	*	*	*	*	*	*
111-120	1	6	3	12	0	9	0	6	0	3	*	*	*	*	*	*
123-132	1	5	1	11	0	9	0	6	0	3	*	*	*	*	*	*
135-144	0	5	0	11	0	9	0	6	0	3	*	*	*	*	*	*
147-156	0	5	0	11	0	9	0	6	0	3	*	*	*	*	*	*
159-168	0	5	2	9	0	9	0	6	0	3	*	*	*	*	*	*
171-180	0	5	1	8	0	9	0	6	0	3	*	*	*	*	*	*
183-192	1	4	0	8	3	6	0	6	0	3	*	*	*	*	*	*
195-204	0	4	0	8	0	6	0	6	0	3	*	*	*	*	*	*
207-216	0	4	0	8	0	6	0	6	0	3	*	*	*	*	*	*
219-228	1	3	0	8	0	6	0	6	0	3	*	*	*	*	*	*
231-240	0	3	0	8	0	6	0	6	0	3	*	*	*	*	*	*
243-252	1	2	1	7	1	5	0	6	0	3	*	*	*	*	*	*
255-264	0	2	0	7	0	5	1	5	0	3	*	*	*	*	*	*
267-276	0	2	1	6	0	5	0	5	0	3	*	*	*	*	*	*
279-288	0	2	0	6	0	5	0	5	0	3	*	*	*	*	*	*
291-300	1	1	0	6	0	5	0	5	0	3	*	*	*	*	*	*
303-312	0	1	0	6	0	5	0	5	0	3	*	*	*	*	*	*
315-324	0	1	1	5	0	5	1	4	0	3	*	*	*	*	*	*
327-336	1	0	0	5	0	5	0	4	0	3	*	*	*	*	*	*
339-348	0	0	0	5	0	5	0	4	0	3	*	*	*	*	*	*
=>351	0	*	5	*	5	*	4	*	3	*	*	*	*	*	*	*
SUM	82		47		24		9		7							
MEAN(HRS)	42.8		101.0		240.2		1368.7		1221.4							
ST.DEV(HRS)	63.2		127.8		385.6		1699.0		1743.4							

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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: MAY 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)														
	20		*	30		*	40		*	50		*	60		*
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*
3	17	43	*	9	17	*	2	7	*	3	2	*	0	0	*
6	7	36	*	6	11	*	1	6	*	2	0	*	0	0	*
9	3	33	*	4	7	*	5	1	*	0	0	*	0	0	*
12	5	28	*	1	6	*	0	1	*	0	0	*	0	0	*
15	3	25	*	0	6	*	0	1	*	0	0	*	0	0	*
18	4	21	*	2	4	*	0	1	*	0	0	*	0	0	*
21	3	18	*	0	4	*	1	0	*	0	0	*	0	0	*
24	2	16	*	0	4	*	0	0	*	0	0	*	0	0	*
27	3	13	*	0	4	*	0	0	*	0	0	*	0	0	*
30	1	12	*	1	3	*	0	0	*	0	0	*	0	0	*
33	2	10	*	1	2	*	0	0	*	0	0	*	0	0	*
36	1	9	*	0	2	*	0	0	*	0	0	*	0	0	*
39	1	8	*	0	2	*	0	0	*	0	0	*	0	0	*
42	1	7	*	0	2	*	0	0	*	0	0	*	0	0	*
45	1	6	*	0	2	*	0	0	*	0	0	*	0	0	*
48	0	6	*	0	2	*	0	0	*	0	0	*	0	0	*
51	2	4	*	0	2	*	0	0	*	0	0	*	0	0	*
54	0	4	*	1	1	*	0	0	*	0	0	*	0	0	*
57	1	3	*	1	0	*	0	0	*	0	0	*	0	0	*
60	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
63	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
66	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
69	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*
72	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
75	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
78	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
81	1	0	*	0	0	*	0	0	*	0	0	*	0	0	*
84	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
87-96	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
99-108	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
111-120	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
123-132	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
135-144	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
147-156	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
159-168	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
171-180	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
SUM	60		*	26		*	9		*	5		*	0		*
MEAN(HRS)	18.7		*	12.3		*	8.7		*	4.2		*	0.0		*
ST.DEV(HRS)	18.6		*	14.7		*	5.0		*	1.5		*	0.0		*

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CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	*	14	50	*	0	29	*	3	9	*	1	7	*	0	3	*
6	*	7	43	*	0	29	*	1	8	*	1	6	*	0	3	*
9	*	1	42	*	2	27	*	0	8	*	0	6	*	0	3	*
12	*	2	40	*	0	27	*	0	8	*	0	6	*	0	3	*
15	*	2	38	*	0	27	*	0	8	*	0	6	*	0	3	*
18	*	1	37	*	0	27	*	0	8	*	0	6	*	0	3	*
21	*	0	37	*	1	26	*	1	7	*	0	6	*	0	3	*
24	*	0	37	*	0	26	*	0	7	*	0	6	*	0	3	*
27	*	1	36	*	0	26	*	0	7	*	0	6	*	0	3	*
30	*	3	33	*	1	25	*	0	7	*	0	6	*	0	3	*
33	*	0	33	*	1	24	*	0	7	*	1	5	*	0	3	*
36	*	1	32	*	1	23	*	0	7	*	0	5	*	0	3	*
39	*	0	32	*	0	23	*	0	7	*	0	5	*	0	3	*
42	*	3	29	*	0	23	*	0	7	*	0	5	*	0	3	*
45	*	0	29	*	0	23	*	0	7	*	0	5	*	0	3	*
48	*	0	29	*	0	23	*	0	7	*	0	5	*	0	3	*
51	*	2	27	*	1	22	*	0	7	*	0	5	*	0	3	*
54	*	0	27	*	0	22	*	0	7	*	0	5	*	0	3	*
57	*	1	26	*	0	22	*	0	7	*	0	5	*	0	3	*
60	*	3	23	*	0	22	*	0	7	*	0	5	*	0	3	*
63	*	1	22	*	2	20	*	0	7	*	0	5	*	0	3	*
66	*	0	22	*	0	20	*	0	7	*	0	5	*	0	3	*
69	*	1	21	*	1	19	*	0	7	*	0	5	*	0	3	*
72	*	0	21	*	1	18	*	0	7	*	0	5	*	0	3	*
75	*	0	21	*	0	18	*	0	7	*	0	5	*	0	3	*
78	*	1	20	*	0	18	*	0	7	*	0	5	*	0	3	*
81	*	2	18	*	0	18	*	0	7	*	0	5	*	0	3	*
84	*	0	18	*	0	18	*	0	7	*	0	5	*	0	3	*
87-96	*	1	17	*	0	18	*	0	7	*	0	5	*	0	3	*
99-108	*	2	15	*	0	18	*	0	7	*	0	5	*	0	3	*
111-120	*	1	14	*	0	18	*	0	7	*	0	5	*	0	3	*
123-132	*	0	14	*	0	18	*	0	7	*	0	5	*	0	3	*
135-144	*	0	14	*	2	16	*	0	7	*	0	5	*	0	3	*
147-156	*	0	14	*	0	16	*	0	7	*	0	5	*	0	3	*
159-168	*	1	13	*	0	16	*	0	7	*	0	5	*	0	3	*
171-180	*	0	13	*	0	16	*	0	7	*	0	5	*	0	3	*
183-192	*	2	11	*	2	14	*	0	7	*	0	5	*	0	3	*
195-204	*	1	10	*	0	14	*	0	7	*	0	5	*	0	3	*
207-216	*	0	10	*	0	14	*	0	7	*	0	5	*	0	3	*
219-228	*	1	9	*	0	14	*	0	7	*	0	5	*	0	3	*
231-240	*	1	8	*	0	14	*	0	7	*	0	5	*	0	3	*
243-252	*	2	6	*	2	12	*	0	7	*	0	5	*	0	3	*
255-264	*	1	5	*	0	12	*	0	7	*	0	5	*	0	3	*
267-276	*	1	4	*	0	12	*	0	7	*	0	5	*	0	3	*
279-288	*	0	4	*	3	9	*	0	7	*	0	5	*	0	3	*
291-300	*	0	4	*	0	9	*	0	7	*	0	5	*	0	3	*
303-312	*	0	4	*	0	9	*	0	7	*	0	5	*	0	3	*
315-324	*	1	3	*	0	9	*	0	7	*	0	5	*	0	3	*
327-336	*	1	2	*	1	8	*	0	7	*	0	5	*	0	3	*
339-348	*	0	2	*	1	7	*	0	7	*	0	5	*	0	3	*
=>351	*	2	*	*	7	*	7	*	5	*	3	*	*	*	*	*

SUM	*	64	*	29	*	12	*	8	*	3	*		*		*	
MEAN(HRS)	*	81.9	*	228.5	*	673.5	*	1467.0	*	3693.0	*		*		*	
ST.DEV(HRS)	*	105.9	*	197.1	*	770.7	*	1475.7	*	386.1	*		*		*	

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DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: JUNE 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)																				
	20		30		40		50		60												
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	N					
3	*	17	*	47	*	8	*	17	*	4	*	5	*	0	*	2	*	0	*	0	*
6	*	9	*	38	*	2	*	15	*	2	*	3	*	2	*	0	*	0	*	0	*
9	*	5	*	33	*	4	*	11	*	0	*	3	*	0	*	0	*	0	*	0	*
12	*	4	*	29	*	1	*	10	*	1	*	2	*	0	*	0	*	0	*	0	*
15	*	5	*	24	*	2	*	8	*	1	*	1	*	0	*	0	*	0	*	0	*
18	*	2	*	22	*	2	*	6	*	0	*	1	*	0	*	0	*	0	*	0	*
21	*	5	*	17	*	2	*	4	*	0	*	1	*	0	*	0	*	0	*	0	*
24	*	2	*	15	*	2	*	2	*	0	*	1	*	0	*	0	*	0	*	0	*
27	*	0	*	15	*	0	*	2	*	0	*	1	*	0	*	0	*	0	*	0	*
30	*	1	*	14	*	0	*	2	*	0	*	1	*	0	*	0	*	0	*	0	*
33	*	4	*	10	*	0	*	2	*	0	*	1	*	0	*	0	*	0	*	0	*
36	*	3	*	7	*	0	*	2	*	0	*	1	*	0	*	0	*	0	*	0	*
39	*	2	*	5	*	0	*	2	*	1	*	0	*	0	*	0	*	0	*	0	*
42	*	0	*	5	*	0	*	2	*	0	*	0	*	0	*	0	*	0	*	0	*
45	*	0	*	5	*	0	*	2	*	0	*	0	*	0	*	0	*	0	*	0	*
48	*	0	*	5	*	1	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
51	*	2	*	3	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*
54	*	0	*	3	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
57	*	0	*	3	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
60	*	0	*	3	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
63	*	1	*	2	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
66	*	0	*	2	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
69	*	0	*	2	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
72	*	1	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
75	*	0	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
78	*	1	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
81	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
84	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
87-96	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
99-108	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
111-120	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
123-132	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
135-144	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
147-156	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
159-168	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
171-180	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
183-192	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
195-204	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
207-216	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
219-228	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
231-240	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
243-252	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
255-264	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
267-276	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
279-288	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
291-300	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
303-312	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
315-324	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
327-336	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
339-348	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
=>351	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*	0	*
SUM	*	64	*	25	*	9	*	2	*	0	*	0	*	0	*	0	*	0	*	0	*
MEAN(HRS)	*	17.6	*	13.7	*	10.0	*	6.0	*	0.0	*	0.0	*	0.0	*	0.0	*	0.0	*	0.0	*
ST.DEV(HRS)	*	17.4	*	13.1	*	11.0	*	0.0	*	0.0	*	0.0	*	0.0	*	0.0	*	0.0	*	0.0	*

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: JUNE 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	14	49	*	3	21	*	0	9	*	0	2	*	0	0	*
6	*	4	45	*	0	21	*	0	9	*	0	2	*	0	0	*
9	*	3	42	*	0	21	*	1	8	*	0	2	*	0	0	*
12	*	1	41	*	1	20	*	0	8	*	0	2	*	0	0	*
15	*	2	39	*	0	20	*	0	8	*	1	1	*	0	0	*
18	*	2	37	*	0	20	*	0	8	*	0	1	*	0	0	*
21	*	4	33	*	1	19	*	0	8	*	0	1	*	0	0	*
24	*	1	32	*	0	19	*	0	8	*	0	1	*	0	0	*
27	*	1	31	*	0	19	*	0	8	*	0	1	*	0	0	*
30	*	0	31	*	0	19	*	0	8	*	0	1	*	0	0	*
33	*	3	28	*	1	18	*	0	8	*	0	1	*	0	0	*
36	*	1	27	*	0	18	*	0	8	*	0	1	*	0	0	*
39	*	1	26	*	0	18	*	0	8	*	0	1	*	0	0	*
42	*	1	25	*	0	18	*	0	8	*	0	1	*	0	0	*
45	*	2	23	*	0	18	*	0	8	*	0	1	*	0	0	*
48	*	0	23	*	2	16	*	0	8	*	0	1	*	0	0	*
51	*	3	20	*	0	16	*	0	8	*	0	1	*	0	0	*
54	*	1	19	*	1	15	*	0	8	*	0	1	*	0	0	*
57	*	1	18	*	0	15	*	0	8	*	0	1	*	0	0	*
60	*	1	17	*	0	15	*	0	8	*	0	1	*	0	0	*
63	*	0	17	*	0	15	*	0	8	*	0	1	*	0	0	*
66	*	0	17	*	0	15	*	0	8	*	0	1	*	0	0	*
69	*	0	17	*	0	15	*	0	8	*	0	1	*	0	0	*
72	*	0	17	*	0	15	*	0	8	*	0	1	*	0	0	*
75	*	0	17	*	1	14	*	0	8	*	0	1	*	0	0	*
78	*	1	16	*	0	14	*	0	8	*	0	1	*	0	0	*
81	*	2	14	*	0	14	*	0	8	*	0	1	*	0	0	*
84	*	0	14	*	0	14	*	0	8	*	0	1	*	0	0	*
87- 96	*	0	14	*	0	14	*	0	8	*	0	1	*	0	0	*
99-108	*	2	12	*	1	13	*	0	8	*	0	1	*	0	0	*
111-120	*	1	11	*	0	13	*	0	8	*	0	1	*	0	0	*
123-132	*	0	11	*	0	13	*	0	8	*	0	1	*	0	0	*
135-144	*	2	9	*	0	13	*	0	8	*	0	1	*	0	0	*
147-156	*	0	9	*	1	12	*	0	8	*	0	1	*	0	0	*
159-168	*	1	8	*	1	11	*	0	8	*	0	1	*	0	0	*
171-180	*	0	8	*	0	11	*	0	8	*	0	1	*	0	0	*
183-192	*	0	8	*	0	11	*	0	8	*	0	1	*	0	0	*
195-204	*	2	6	*	0	11	*	0	8	*	0	1	*	0	0	*
207-216	*	0	6	*	0	11	*	0	8	*	0	1	*	0	0	*
219-228	*	0	6	*	2	9	*	0	8	*	0	1	*	0	0	*
231-240	*	1	5	*	1	8	*	0	8	*	0	1	*	0	0	*
243-252	*	0	5	*	0	8	*	0	8	*	0	1	*	0	0	*
255-264	*	0	5	*	0	8	*	0	8	*	0	1	*	0	0	*
267-276	*	1	4	*	0	8	*	0	8	*	0	1	*	0	0	*
279-288	*	0	4	*	0	8	*	0	8	*	0	1	*	0	0	*
291-300	*	1	3	*	0	8	*	0	8	*	0	1	*	0	0	*
303-312	*	0	3	*	0	8	*	0	8	*	0	1	*	0	0	*
315-324	*	0	3	*	0	8	*	0	8	*	0	1	*	0	0	*
327-336	*	0	3	*	0	8	*	0	8	*	0	1	*	0	0	*
339-348	*	0	3	*	2	6	*	0	8	*	0	1	*	0	0	*
=>351	*	3	*	6	*	8	*	1	*	0	*	0	*	0	*	

SUM	*	63	*	24	*	9	*	2	*	0	*					
MEAN(HRS)	*	71.8	*	258.7	*	1102.3	*	1030.5	*	0.0	*					
ST.DEV(HRS)	*	111.1	*	316.2	*	673.4	*	1015.5	*	0.0	*					

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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: JULY 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	21	30	4	6	0	1	0	0	0	0	0	0	0	0	0	0
6	8	22	4	2	0	1	0	1	0	0	0	0	0	0	0	0
9	6	16	1	1	0	1	0	1	0	0	0	0	0	0	0	0
12	2	14	0	1	0	1	0	1	0	0	0	0	0	0	0	0
15	2	12	0	1	1	0	1	0	0	0	0	0	0	0	0	0
18	2	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0
21	1	9	0	1	0	0	0	0	0	0	0	0	0	0	0	0
24	1	8	0	1	0	0	0	0	0	0	0	0	0	0	0	0
27	1	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0
30	0	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0
33	1	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0
36	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
87-96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
99-108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
111-120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
123-132	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135-144	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
147-156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
159-168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
171-180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
183-192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
195-204	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
207-216	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
219-228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
231-240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
243-252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
255-264	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
267-276	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
279-288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
291-300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
303-312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
315-324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
327-336	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
339-348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
=>351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUM	51		10		1		0		0		0		0		0	
MEAN(HRS)	12.1		7.8		15.0		0.0		0.0		0.0		0.0		0.0	
ST.DEV(HRS)	13.4		8.6		0.0		0.0		0.0		0.0		0.0		0.0	

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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: JULY 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	5	45	*	2	9	*	0	1	*	0	0	*	0	0	*
6	*	6	39	*	1	8	*	0	1	*	0	0	*	0	0	*
9	*	2	37	*	0	8	*	0	1	*	0	0	*	0	0	*
12	*	2	35	*	0	8	*	0	1	*	0	0	*	0	0	*
15	*	3	32	*	0	8	*	0	1	*	0	0	*	0	0	*
18	*	0	32	*	0	8	*	0	1	*	0	0	*	0	0	*
21	*	0	32	*	0	8	*	0	1	*	0	0	*	0	0	*
24	*	1	31	*	0	8	*	0	1	*	0	0	*	0	0	*
27	*	1	30	*	0	8	*	0	1	*	0	0	*	0	0	*
30	*	1	29	*	0	8	*	0	1	*	0	0	*	0	0	*
33	*	1	28	*	0	8	*	0	1	*	0	0	*	0	0	*
36	*	0	28	*	0	8	*	0	1	*	0	0	*	0	0	*
39	*	0	28	*	0	8	*	0	1	*	0	0	*	0	0	*
42	*	1	27	*	0	8	*	0	1	*	0	0	*	0	0	*
45	*	0	27	*	0	8	*	0	1	*	0	0	*	0	0	*
48	*	3	24	*	0	8	*	0	1	*	0	0	*	0	0	*
51	*	1	23	*	0	8	*	0	1	*	0	0	*	0	0	*
54	*	2	21	*	0	8	*	0	1	*	0	0	*	0	0	*
57	*	2	19	*	0	8	*	0	1	*	0	0	*	0	0	*
60	*	0	19	*	0	8	*	0	1	*	0	0	*	0	0	*
63	*	0	19	*	0	8	*	0	1	*	0	0	*	0	0	*
66	*	0	19	*	0	8	*	0	1	*	0	0	*	0	0	*
69	*	1	18	*	0	8	*	0	1	*	0	0	*	0	0	*
72	*	0	18	*	0	8	*	0	1	*	0	0	*	0	0	*
75	*	1	17	*	0	8	*	0	1	*	0	0	*	0	0	*
78	*	0	17	*	0	8	*	0	1	*	0	0	*	0	0	*
81	*	0	17	*	0	8	*	0	1	*	0	0	*	0	0	*
84	*	0	17	*	0	8	*	0	1	*	0	0	*	0	0	*
87-96	*	1	16	*	0	8	*	0	1	*	0	0	*	0	0	*
99-108	*	2	14	*	0	8	*	0	1	*	0	0	*	0	0	*
111-120	*	1	13	*	0	8	*	0	1	*	0	0	*	0	0	*
123-132	*	1	12	*	0	8	*	0	1	*	0	0	*	0	0	*
135-144	*	0	12	*	0	8	*	0	1	*	0	0	*	0	0	*
147-156	*	0	12	*	0	8	*	0	1	*	0	0	*	0	0	*
159-168	*	0	12	*	0	8	*	0	1	*	0	0	*	0	0	*
171-180	*	1	11	*	0	8	*	0	1	*	0	0	*	0	0	*
183-192	*	1	10	*	0	8	*	0	1	*	0	0	*	0	0	*
195-204	*	2	8	*	0	8	*	0	1	*	0	0	*	0	0	*
207-216	*	1	7	*	0	8	*	0	1	*	0	0	*	0	0	*
219-228	*	0	7	*	1	7	*	0	1	*	0	0	*	0	0	*
231-240	*	1	6	*	0	7	*	0	1	*	0	0	*	0	0	*
243-252	*	1	5	*	0	7	*	0	1	*	0	0	*	0	0	*
255-264	*	0	5	*	0	7	*	0	1	*	0	0	*	0	0	*
267-276	*	0	5	*	0	7	*	0	1	*	0	0	*	0	0	*
279-288	*	0	5	*	0	7	*	0	1	*	0	0	*	0	0	*
291-300	*	1	4	*	0	7	*	0	1	*	0	0	*	0	0	*
303-312	*	0	4	*	0	7	*	0	1	*	0	0	*	0	0	*
315-324	*	1	3	*	0	7	*	0	1	*	0	0	*	0	0	*
327-336	*	0	3	*	0	7	*	0	1	*	0	0	*	0	0	*
339-348	*	0	3	*	0	7	*	0	1	*	0	0	*	0	0	*
=>351	*	3		*	7		*	1		*	0		*	0		*
SUM	*	50		*	11		*	1		*	0		*	0		*
MEAN(HRS)	*	95.5		*	466.4		*	1176.0		*	0.0		*	0.0		*
ST.DEV(HRS)	*	120.4		*	387.6		*	0.0		*	0.0		*	0.0		*

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DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: AUG 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)																
	20		30		40		50		60								
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	N	
3	*	21	*	51	*	4	18	*	2	8	*	2	0	*	0	0	*
6	*	12	*	39	*	5	13	*	2	6	*	0	0	*	0	0	*
9	*	8	*	31	*	4	9	*	4	2	*	0	0	*	0	0	*
12	*	2	*	29	*	2	7	*	2	0	*	0	0	*	0	0	*
15	*	3	*	26	*	0	7	*	0	0	*	0	0	*	0	0	*
18	*	2	*	24	*	3	4	*	0	0	*	0	0	*	0	0	*
21	*	2	*	22	*	0	4	*	0	0	*	0	0	*	0	0	*
24	*	6	*	16	*	0	4	*	0	0	*	0	0	*	0	0	*
27	*	4	*	12	*	0	4	*	0	0	*	0	0	*	0	0	*
30	*	2	*	10	*	1	3	*	0	0	*	0	0	*	0	0	*
33	*	0	*	10	*	1	2	*	0	0	*	0	0	*	0	0	*
36	*	1	*	9	*	0	2	*	0	0	*	0	0	*	0	0	*
39	*	2	*	7	*	0	2	*	0	0	*	0	0	*	0	0	*
42	*	1	*	6	*	0	2	*	0	0	*	0	0	*	0	0	*
45	*	0	*	6	*	1	1	*	0	0	*	0	0	*	0	0	*
48	*	0	*	6	*	1	0	*	0	0	*	0	0	*	0	0	*
51	*	0	*	6	*	0	0	*	0	0	*	0	0	*	0	0	*
54	*	2	*	4	*	0	0	*	0	0	*	0	0	*	0	0	*
57	*	0	*	4	*	0	0	*	0	0	*	0	0	*	0	0	*
60	*	0	*	4	*	0	0	*	0	0	*	0	0	*	0	0	*
63	*	1	*	3	*	0	0	*	0	0	*	0	0	*	0	0	*
66	*	1	*	2	*	0	0	*	0	0	*	0	0	*	0	0	*
69	*	2	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
72	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
75	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
78	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
81	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
84	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
87-96	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
99-108	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
111-120	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
123-132	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
135-144	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
147-156	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
159-168	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
171-180	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	0	*	0	*	0	0	*	0	0	*	0	0	*	0	0	*
SUM	*	72	*	22	*	10	*	2	*	0	*	0	*	0	*	0	*
MEAN(HRS)	*	16.6	*	14.2	*	7.8	*	3.0	*	0.0	*	0.0	*	0.0	*	0.0	*
ST.DEV(HRS)	*	17.4	*	13.0	*	3.1	*	0.0	*	0.0	*	0.0	*	0.0	*	0.0	*

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: AUG 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION. P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	P
3	*	9	62	*	4	18	*	1	9	*	0	2	*	0	0	*
6	*	4	58	*	0	18	*	2	7	*	0	2	*	0	0	*
9	*	2	56	*	1	17	*	0	7	*	1	1	*	0	0	*
12	*	3	53	*	0	17	*	0	7	*	0	1	*	0	0	*
15	*	3	50	*	0	17	*	1	6	*	0	1	*	0	0	*
18	*	5	45	*	0	17	*	0	6	*	0	1	*	0	0	*
21	*	4	41	*	0	17	*	0	6	*	0	1	*	0	0	*
24	*	2	39	*	0	17	*	0	6	*	0	1	*	0	0	*
27	*	0	39	*	0	17	*	0	6	*	0	1	*	0	0	*
30	*	3	36	*	0	17	*	0	6	*	0	1	*	0	0	*
33	*	1	35	*	0	17	*	0	6	*	0	1	*	0	0	*
36	*	2	33	*	1	16	*	0	6	*	0	1	*	0	0	*
39	*	0	33	*	1	15	*	0	6	*	0	1	*	0	0	*
42	*	1	32	*	0	15	*	0	6	*	0	1	*	0	0	*
45	*	0	32	*	0	15	*	0	6	*	0	1	*	0	0	*
48	*	3	29	*	0	15	*	0	6	*	0	1	*	0	0	*
51	*	2	27	*	0	15	*	0	6	*	0	1	*	0	0	*
54	*	0	27	*	0	15	*	0	6	*	0	1	*	0	0	*
57	*	3	24	*	0	15	*	0	6	*	0	1	*	0	0	*
60	*	3	21	*	1	14	*	0	6	*	0	1	*	0	0	*
63	*	2	19	*	0	14	*	0	6	*	0	1	*	0	0	*
66	*	0	19	*	0	14	*	0	6	*	0	1	*	0	0	*
69	*	0	19	*	0	14	*	0	6	*	0	1	*	0	0	*
72	*	1	18	*	0	14	*	0	6	*	0	1	*	0	0	*
75	*	0	18	*	0	14	*	0	6	*	0	1	*	0	0	*
78	*	1	17	*	0	14	*	0	6	*	0	1	*	0	0	*
81	*	0	17	*	1	13	*	0	6	*	0	1	*	0	0	*
84	*	1	16	*	0	13	*	0	6	*	0	1	*	0	0	*
87-96	*	2	14	*	1	12	*	0	6	*	0	1	*	0	0	*
99-108	*	0	14	*	0	12	*	0	6	*	0	1	*	0	0	*
111-120	*	3	11	*	1	11	*	0	6	*	0	1	*	0	0	*
123-132	*	2	9	*	1	10	*	0	6	*	0	1	*	0	0	*
135-144	*	1	8	*	1	9	*	0	6	*	0	1	*	0	0	*
147-156	*	2	6	*	0	9	*	0	6	*	0	1	*	0	0	*
159-168	*	0	6	*	0	9	*	0	6	*	0	1	*	0	0	*
171-180	*	0	6	*	0	9	*	0	6	*	0	1	*	0	0	*
183-192	*	0	6	*	1	8	*	0	6	*	0	1	*	0	0	*
195-204	*	0	6	*	1	7	*	0	6	*	0	1	*	0	0	*
207-216	*	0	6	*	0	7	*	0	6	*	0	1	*	0	0	*
219-228	*	0	6	*	0	7	*	0	6	*	0	1	*	0	0	*
231-240	*	1	5	*	0	7	*	0	6	*	0	1	*	0	0	*
243-252	*	1	4	*	0	7	*	0	6	*	0	1	*	0	0	*
255-264	*	0	4	*	1	6	*	0	6	*	0	1	*	0	0	*
267-276	*	2	2	*	1	5	*	0	6	*	0	1	*	0	0	*
279-288	*	0	2	*	0	5	*	0	6	*	0	1	*	0	0	*
291-300	*	0	2	*	1	4	*	0	6	*	0	1	*	0	0	*
303-312	*	1	1	*	0	4	*	1	5	*	0	1	*	0	0	*
315-324	*	0	1	*	0	4	*	0	5	*	0	1	*	0	0	*
327-336	*	0	1	*	0	4	*	0	5	*	0	1	*	0	0	*
339-348	*	0	1	*	0	4	*	0	5	*	0	1	*	0	0	*
=>351	*	1		*	4		*	5		*	1		*	0		*
SUM	*	71		*	22		*	10		*	2		*	0		*
MEAN(HRS)	*	65.0		*	194.3		*	352.8		*	498.0		*	0.0		*
ST.DEV(HRS)	*	86.7		*	222.6		*	325.6		*	489.0		*	0.0		*

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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: SEPT 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	14	74	*	18	58	*	17	14	*	3	4	*	0	4	*
6	*	9	65	*	11	47	*	6	8	*	1	3	*	3	1	*
9	*	3	62	*	12	35	*	3	5	*	0	3	*	1	0	*
12	*	4	58	*	4	31	*	1	4	*	2	1	*	0	0	*
15	*	6	52	*	8	23	*	1	3	*	0	1	*	0	0	*
18	*	3	49	*	6	17	*	0	3	*	0	1	*	0	0	*
21	*	3	46	*	2	15	*	2	1	*	1	0	*	0	0	*
24	*	4	42	*	4	11	*	0	1	*	0	0	*	0	0	*
27	*	1	41	*	1	10	*	0	1	*	0	0	*	0	0	*
30	*	4	37	*	0	10	*	1	0	*	0	0	*	0	0	*
33	*	5	32	*	1	9	*	0	0	*	0	0	*	0	0	*
36	*	1	31	*	4	5	*	0	0	*	0	0	*	0	0	*
39	*	2	29	*	1	4	*	0	0	*	0	0	*	0	0	*
42	*	3	26	*	1	3	*	0	0	*	0	0	*	0	0	*
45	*	2	24	*	1	2	*	0	0	*	0	0	*	0	0	*
48	*	3	21	*	0	2	*	0	0	*	0	0	*	0	0	*
51	*	1	20	*	1	1	*	0	0	*	0	0	*	0	0	*
54	*	0	20	*	0	1	*	0	0	*	0	0	*	0	0	*
57	*	1	19	*	1	0	*	0	0	*	0	0	*	0	0	*
60	*	1	18	*	0	0	*	0	0	*	0	0	*	0	0	*
63	*	4	14	*	0	0	*	0	0	*	0	0	*	0	0	*
66	*	1	13	*	0	0	*	0	0	*	0	0	*	0	0	*
69	*	1	12	*	0	0	*	0	0	*	0	0	*	0	0	*
72	*	0	12	*	0	0	*	0	0	*	0	0	*	0	0	*
75	*	0	12	*	0	0	*	0	0	*	0	0	*	0	0	*
78	*	2	10	*	0	0	*	0	0	*	0	0	*	0	0	*
81	*	2	8	*	0	0	*	0	0	*	0	0	*	0	0	*
84	*	0	8	*	0	0	*	0	0	*	0	0	*	0	0	*
87- 96	*	4	4	*	0	0	*	0	0	*	0	0	*	0	0	*
99-108	*	1	3	*	0	0	*	0	0	*	0	0	*	0	0	*
111-120	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
123-132	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
135-144	*	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
147-156	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
159-168	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
171-180	*	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	1		*	0		*	0		*	0		*	0		*
SUM	*	88		*	76		*	31		*	7		*	4		*
MEAN(HRS)	*	37.2		*	14.2		*	6.9		*	8.6		*	6.8		*
ST.DEV(HRS)	*	47.4		*	12.5		*	6.5		*	6.3		*	1.3		*

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DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: SEPT 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	N
3	*	23	64	*	18	57	*	4	27	*	1	6	*	0	4	*
6	*	10	54	*	3	54	*	2	25	*	0	6	*	1	3	*
9	*	3	51	*	4	50	*	0	25	*	0	6	*	0	3	*
12	*	1	50	*	5	45	*	0	25	*	0	6	*	0	3	*
15	*	4	46	*	0	45	*	1	24	*	0	6	*	0	3	*
18	*	2	44	*	3	42	*	1	23	*	0	6	*	0	3	*
21	*	3	41	*	3	39	*	1	22	*	0	6	*	0	3	*
24	*	5	36	*	0	39	*	0	22	*	0	6	*	0	3	*
27	*	5	31	*	2	37	*	0	22	*	0	6	*	0	3	*
30	*	4	27	*	2	35	*	0	22	*	0	6	*	0	3	*
33	*	2	25	*	2	33	*	1	21	*	0	6	*	0	3	*
36	*	1	24	*	1	32	*	0	21	*	0	6	*	0	3	*
39	*	3	21	*	0	32	*	1	20	*	0	6	*	0	3	*
42	*	0	21	*	0	32	*	0	20	*	0	6	*	0	3	*
45	*	2	19	*	0	32	*	1	19	*	0	6	*	0	3	*
48	*	1	18	*	0	32	*	0	19	*	0	6	*	0	3	*
51	*	1	17	*	1	31	*	1	18	*	0	6	*	0	3	*
54	*	2	15	*	2	29	*	0	18	*	0	6	*	0	3	*
57	*	1	14	*	3	26	*	0	18	*	0	6	*	0	3	*
60	*	0	14	*	0	26	*	1	17	*	0	6	*	0	3	*
63	*	0	14	*	0	26	*	1	16	*	0	6	*	0	3	*
66	*	1	13	*	1	25	*	1	15	*	0	6	*	0	3	*
69	*	4	9	*	2	23	*	0	15	*	0	6	*	0	3	*
72	*	2	7	*	0	23	*	1	14	*	0	6	*	0	3	*
75	*	0	7	*	1	22	*	0	14	*	0	6	*	0	3	*
78	*	0	7	*	0	22	*	0	14	*	0	6	*	0	3	*
81	*	1	6	*	2	20	*	0	14	*	0	6	*	0	3	*
84	*	0	6	*	1	19	*	0	14	*	0	6	*	0	3	*
87-96	*	2	4	*	5	14	*	3	11	*	0	6	*	0	3	*
99-108	*	1	3	*	4	10	*	2	9	*	0	6	*	0	3	*
111-120	*	1	2	*	0	10	*	0	9	*	0	6	*	0	3	*
123-132	*	0	2	*	0	10	*	1	8	*	0	6	*	0	3	*
135-144	*	0	2	*	1	9	*	0	8	*	0	6	*	0	3	*
147-156	*	0	2	*	0	9	*	0	8	*	0	6	*	0	3	*
159-168	*	1	1	*	4	5	*	1	7	*	0	6	*	0	3	*
171-180	*	1	0	*	0	5	*	2	5	*	0	6	*	0	3	*
183-192	*	0	0	*	1	4	*	0	5	*	0	6	*	0	3	*
195-204	*	0	0	*	1	3	*	0	5	*	0	6	*	0	3	*
207-216	*	0	0	*	0	3	*	0	5	*	1	5	*	0	3	*
219-228	*	0	0	*	0	3	*	1	4	*	0	5	*	0	3	*
231-240	*	0	0	*	1	2	*	0	4	*	0	5	*	0	3	*
243-252	*	0	0	*	0	2	*	1	3	*	0	5	*	0	3	*
255-264	*	0	0	*	0	2	*	0	3	*	0	5	*	0	3	*
267-276	*	0	0	*	0	2	*	1	2	*	0	5	*	0	3	*
279-288	*	0	0	*	0	2	*	0	2	*	0	5	*	0	3	*
291-300	*	0	0	*	1	1	*	0	2	*	2	3	*	0	3	*
303-312	*	0	0	*	0	1	*	0	2	*	0	3	*	0	3	*
315-324	*	0	0	*	0	1	*	0	2	*	0	3	*	0	3	*
327-336	*	0	0	*	0	1	*	0	2	*	0	3	*	0	3	*
339-348	*	0	0	*	0	1	*	0	2	*	0	3	*	0	3	*
=>351	*	0	*	1	*	*	2	*	*	3	*	*	3	*	*	
SUM	*	87	*	75	*	31	*	7	*	4	*	*	*	*	*	
MEAN(HRS)	*	29.8	*	57.4	*	118.4	*	359.1	*	598.5	*	*	*	*	*	
ST.DEV(HRS)	*	34.6	*	71.1	*	156.5	*	223.0	*	380.9	*	*	*	*	*	

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: OKT 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION. P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20			30			40			50			60			
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	14	84	*	17	70	*	24	51	*	13	22	*	6	11	*
6	*	11	73	*	8	62	*	12	39	*	5	17	*	2	9	*
9	*	9	64	*	9	53	*	4	35	*	4	13	*	1	8	*
12	*	5	59	*	7	46	*	4	31	*	4	9	*	6	2	*
15	*	5	54	*	6	40	*	6	25	*	3	6	*	0	2	*
18	*	4	50	*	8	32	*	4	21	*	2	4	*	2	0	*
21	*	5	45	*	3	29	*	6	15	*	0	4	*	0	0	*
24	*	6	39	*	6	23	*	2	13	*	1	3	*	0	0	*
27	*	2	37	*	5	18	*	3	10	*	1	2	*	0	0	*
30	*	1	36	*	0	18	*	2	8	*	1	1	*	0	0	*
33	*	2	34	*	1	17	*	2	6	*	0	1	*	0	0	*
36	*	1	33	*	0	17	*	1	5	*	0	1	*	0	0	*
39	*	2	31	*	2	15	*	1	4	*	0	1	*	0	0	*
42	*	3	28	*	0	15	*	1	3	*	0	1	*	0	0	*
45	*	2	26	*	1	14	*	1	2	*	1	0	*	0	0	*
48	*	1	25	*	0	14	*	1	1	*	0	0	*	0	0	*
51	*	4	21	*	2	12	*	0	1	*	0	0	*	0	0	*
54	*	1	20	*	0	12	*	0	1	*	0	0	*	0	0	*
57	*	1	19	*	1	11	*	0	1	*	0	0	*	0	0	*
60	*	2	17	*	0	11	*	0	1	*	0	0	*	0	0	*
63	*	2	15	*	1	10	*	1	0	*	0	0	*	0	0	*
66	*	1	14	*	1	9	*	0	0	*	0	0	*	0	0	*
69	*	0	14	*	0	9	*	0	0	*	0	0	*	0	0	*
72	*	0	14	*	1	8	*	0	0	*	0	0	*	0	0	*
75	*	2	12	*	0	8	*	0	0	*	0	0	*	0	0	*
78	*	0	12	*	0	8	*	0	0	*	0	0	*	0	0	*
81	*	2	10	*	0	8	*	0	0	*	0	0	*	0	0	*
84	*	0	10	*	0	8	*	0	0	*	0	0	*	0	0	*
87-96	*	1	9	*	3	5	*	0	0	*	0	0	*	0	0	*
99-108	*	1	8	*	1	4	*	0	0	*	0	0	*	0	0	*
111-120	*	1	7	*	1	3	*	0	0	*	0	0	*	0	0	*
123-132	*	2	5	*	2	1	*	0	0	*	0	0	*	0	0	*
135-144	*	0	5	*	1	0	*	0	0	*	0	0	*	0	0	*
147-156	*	2	3	*	0	0	*	0	0	*	0	0	*	0	0	*
159-168	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
171-180	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	1	*	*	0	*	*	0	*	*	0	*	*	0	*	*

SUM	*	98	*	87	*	75	*	35	*	17	*
MEAN(HRS)	*	40.8	*	25.8	*	13.9	*	10.3	*	8.6	*
ST.DEV(HRS)	*	66.3	*	31.5	*	12.9	*	9.3	*	5.1	*

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: OKT 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	25	69	*	19	64	*	13	60	*	7	28	*	3	14	*
6	*	11	58	*	7	57	*	10	50	*	1	27	*	2	12	*
9	*	6	52	*	4	53	*	2	48	*	1	26	*	0	12	*
12	*	6	46	*	3	50	*	4	44	*	0	26	*	0	12	*
15	*	7	39	*	1	49	*	2	42	*	1	25	*	0	12	*
18	*	1	38	*	2	47	*	2	40	*	1	24	*	0	12	*
21	*	4	34	*	3	44	*	5	35	*	0	24	*	0	12	*
24	*	6	28	*	5	39	*	1	34	*	1	23	*	0	12	*
27	*	5	23	*	2	37	*	3	31	*	2	21	*	0	12	*
30	*	2	21	*	4	33	*	0	31	*	0	21	*	0	12	*
33	*	2	19	*	1	32	*	2	29	*	0	21	*	0	12	*
36	*	1	18	*	5	27	*	1	28	*	3	18	*	1	11	*
39	*	1	17	*	0	27	*	1	27	*	1	17	*	0	11	*
42	*	4	13	*	3	24	*	0	27	*	1	16	*	0	11	*
45	*	2	11	*	0	24	*	1	26	*	0	16	*	0	11	*
48	*	0	11	*	1	23	*	0	26	*	0	16	*	0	11	*
51	*	4	7	*	1	22	*	0	26	*	0	16	*	0	11	*
54	*	0	7	*	0	22	*	0	26	*	1	15	*	0	11	*
57	*	0	7	*	3	19	*	0	26	*	0	15	*	0	11	*
60	*	0	7	*	1	18	*	0	26	*	0	15	*	0	11	*
63	*	0	7	*	2	16	*	1	25	*	0	15	*	0	11	*
66	*	1	6	*	0	16	*	0	25	*	0	15	*	0	11	*
69	*	0	6	*	1	15	*	0	25	*	0	15	*	1	10	*
72	*	1	5	*	1	14	*	1	24	*	0	15	*	0	10	*
75	*	0	5	*	1	13	*	1	23	*	0	15	*	0	10	*
78	*	1	4	*	1	12	*	0	23	*	0	15	*	0	10	*
81	*	1	3	*	0	12	*	0	23	*	0	15	*	0	10	*
84	*	0	3	*	0	12	*	1	22	*	0	15	*	0	10	*
87-96	*	1	2	*	3	9	*	2	20	*	0	15	*	0	10	*
99-108	*	0	2	*	0	9	*	4	16	*	1	14	*	0	10	*
111-120	*	1	1	*	2	7	*	2	14	*	1	13	*	0	10	*
123-132	*	1	0	*	2	5	*	1	13	*	0	13	*	1	9	*
135-144	*	0	0	*	2	3	*	2	11	*	2	11	*	1	8	*
147-156	*	0	0	*	0	3	*	2	9	*	0	11	*	0	8	*
159-168	*	0	0	*	0	3	*	0	9	*	0	11	*	0	8	*
171-180	*	0	0	*	0	3	*	0	9	*	1	10	*	0	8	*
183-192	*	0	0	*	1	2	*	1	8	*	0	10	*	0	8	*
195-204	*	0	0	*	0	2	*	2	6	*	0	10	*	0	8	*
207-216	*	0	0	*	0	2	*	0	6	*	1	9	*	0	8	*
219-228	*	0	0	*	0	2	*	2	4	*	1	8	*	0	8	*
231-240	*	0	0	*	0	2	*	0	4	*	1	7	*	0	8	*
243-252	*	0	0	*	0	2	*	0	4	*	0	7	*	1	7	*
255-264	*	0	0	*	0	2	*	1	3	*	0	7	*	0	7	*
267-276	*	0	0	*	1	1	*	0	3	*	0	7	*	0	7	*
279-288	*	0	0	*	0	1	*	0	3	*	0	7	*	0	7	*
291-300	*	0	0	*	0	1	*	0	3	*	0	7	*	0	7	*
303-312	*	0	0	*	0	1	*	0	3	*	0	7	*	0	7	*
315-324	*	0	0	*	0	1	*	1	2	*	0	7	*	0	7	*
327-336	*	0	0	*	0	1	*	0	2	*	0	7	*	0	7	*
339-348	*	0	0	*	0	1	*	1	1	*	0	7	*	0	7	*
=>351	*	0		*	1		*	1		*	7		*	7		*
SUM	*	94		*	83		*	73		*	35		*	17		*
MEAN(HRS)	*	21.7		*	43.8		*	67.1		*	142.5		*	235.1		*
ST.DEV(HRS)	*	24.3		*	66.7		*	93.6		*	178.2		*	218.2		*

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CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		*	30		*	40		*	50		*	60		*	
	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	8	49	*	32	68	*	14	57	*	16	41	*	14	19	*
6	*	4	45	*	10	58	*	10	47	*	10	31	*	5	14	*
9	*	2	43	*	7	51	*	6	41	*	3	28	*	4	10	*
12	*	1	42	*	3	48	*	3	38	*	8	20	*	2	8	*
15	*	2	40	*	4	44	*	4	34	*	5	15	*	0	8	*
18	*	1	39	*	4	40	*	6	28	*	3	12	*	3	5	*
21	*	3	36	*	1	39	*	5	23	*	0	12	*	2	3	*
24	*	1	35	*	2	37	*	2	21	*	2	10	*	1	2	*
27	*	1	34	*	3	34	*	1	20	*	5	5	*	0	2	*
30	*	2	32	*	2	32	*	5	15	*	0	5	*	0	2	*
33	*	1	31	*	3	29	*	2	13	*	2	3	*	0	2	*
36	*	1	30	*	4	25	*	1	12	*	0	3	*	1	1	*
39	*	1	29	*	1	24	*	1	11	*	1	2	*	0	1	*
42	*	1	28	*	4	20	*	0	11	*	0	2	*	1	0	*
45	*	1	27	*	1	19	*	3	8	*	0	2	*	0	0	*
48	*	0	27	*	3	16	*	1	7	*	1	1	*	0	0	*
51	*	2	25	*	2	14	*	0	7	*	1	0	*	0	0	*
54	*	0	25	*	2	12	*	2	5	*	0	0	*	0	0	*
57	*	2	23	*	0	12	*	0	5	*	0	0	*	0	0	*
60	*	0	23	*	0	12	*	2	3	*	0	0	*	0	0	*
63	*	1	22	*	0	12	*	1	2	*	0	0	*	0	0	*
66	*	0	22	*	3	9	*	0	2	*	0	0	*	0	0	*
69	*	1	21	*	2	7	*	0	2	*	0	0	*	0	0	*
72	*	0	21	*	0	7	*	0	2	*	0	0	*	0	0	*
75	*	0	21	*	0	7	*	0	2	*	0	0	*	0	0	*
78	*	1	20	*	1	6	*	0	2	*	0	0	*	0	0	*
81	*	0	20	*	1	5	*	0	2	*	0	0	*	0	0	*
84	*	1	19	*	0	5	*	0	2	*	0	0	*	0	0	*
87- 96	*	5	14	*	2	3	*	2	0	*	0	0	*	0	0	*
99-108	*	0	14	*	1	2	*	0	0	*	0	0	*	0	0	*
111-120	*	2	12	*	0	2	*	0	0	*	0	0	*	0	0	*
123-132	*	1	11	*	1	1	*	0	0	*	0	0	*	0	0	*
135-144	*	2	9	*	0	1	*	0	0	*	0	0	*	0	0	*
147-156	*	1	8	*	0	1	*	0	0	*	0	0	*	0	0	*
159-168	*	0	8	*	1	0	*	0	0	*	0	0	*	0	0	*
171-180	*	0	8	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	8	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	1	7	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	1	6	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	6	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	1	5	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	5	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	2	3	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	2	*	*	0	*	*	0	*	*	0	*	*	0	*	*

SUM	*	57	*	100	*	71	*	57	*	33	*
MEAN(HRS)	*	76.8	*	25.1	*	21.0	*	13.1	*	10.0	*
ST. DEV(HRS)	*	89.4	*	29.6	*	20.4	*	11.6	*	9.7	*

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CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)																				
	20		30		40		50		60												
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*						
3	*	12		49	*	15		89	*	13		59	*	10		46	*	2		31	*
6	*	11		38	*	16		73	*	5		54	*	4		42	*	2		29	*
9	*	8		30	*	11		62	*	4		50	*	1		41	*	2		27	*
12	*	4		26	*	3		59	*	1		49	*	0		41	*	1		26	*
15	*	6		20	*	4		55	*	3		46	*	0		41	*	0		26	*
18	*	3		17	*	5		50	*	2		44	*	1		40	*	1		25	*
21	*	2		15	*	5		45	*	2		42	*	4		36	*	0		25	*
24	*	0		15	*	4		41	*	2		40	*	3		33	*	1		24	*
27	*	1		14	*	6		35	*	1		39	*	2		31	*	0		24	*
30	*	0		14	*	5		30	*	3		36	*	2		29	*	1		23	*
33	*	3		11	*	4		26	*	1		35	*	0		29	*	2		21	*
36	*	0		11	*	3		23	*	2		33	*	0		29	*	0		21	*
39	*	1		10	*	1		22	*	1		32	*	1		28	*	0		21	*
42	*	0		10	*	0		22	*	0		32	*	1		27	*	0		21	*
45	*	1		9	*	0		22	*	2		30	*	0		27	*	0		21	*
48	*	2		7	*	0		22	*	3		27	*	0		27	*	0		21	*
51	*	1		6	*	3		19	*	1		26	*	2		25	*	0		21	*
54	*	0		6	*	1		18	*	1		25	*	0		25	*	2		19	*
57	*	1		5	*	1		17	*	2		23	*	2		23	*	0		19	*
60	*	0		5	*	0		17	*	1		22	*	3		20	*	1		18	*
63	*	1		4	*	0		17	*	1		21	*	0		20	*	1		17	*
66	*	0		4	*	0		17	*	0		21	*	0		20	*	1		16	*
69	*	1		3	*	0		17	*	0		21	*	0		20	*	0		16	*
72	*	0		3	*	1		16	*	0		21	*	1		19	*	0		16	*
75	*	0		3	*	2		14	*	1		20	*	0		19	*	0		16	*
78	*	0		3	*	1		13	*	0		20	*	0		19	*	0		16	*
81	*	0		3	*	0		13	*	0		20	*	0		19	*	0		16	*
84	*	0		3	*	2		11	*	1		19	*	0		19	*	0		16	*
87-96	*	1		2	*	3		8	*	1		18	*	3		16	*	0		16	*
99-108	*	1		1	*	1		7	*	5		13	*	2		14	*	0		16	*
111-120	*	0		1	*	3		4	*	1		12	*	2		12	*	3		13	*
123-132	*	0		1	*	2		2	*	2		10	*	1		11	*	0		13	*
135-144	*	0		1	*	0		2	*	0		10	*	0		11	*	1		12	*
147-156	*	0		1	*	1		1	*	4		6	*	1		10	*	0		12	*
159-168	*	0		1	*	0		1	*	0		6	*	0		10	*	1		11	*
171-180	*	0		1	*	0		1	*	1		5	*	1		9	*	0		11	*
183-192	*	0		1	*	0		1	*	0		5	*	2		7	*	3		8	*
195-204	*	0		1	*	0		1	*	2		3	*	1		6	*	0		8	*
207-216	*	0		1	*	0		1	*	0		3	*	1		5	*	1		7	*
219-228	*	1		0	*	1		0	*	0		3	*	0		5	*	1		6	*
231-240	*	0		0	*	0		0	*	0		3	*	0		5	*	0		6	*
243-252	*	0		0	*	0		0	*	1		2	*	1		4	*	0		6	*
255-264	*	0		0	*	0		0	*	1		1	*	0		4	*	0		6	*
267-276	*	0		0	*	0		0	*	0		1	*	0		4	*	0		6	*
279-288	*	0		0	*	0		0	*	0		1	*	0		4	*	1		5	*
291-300	*	0		0	*	0		0	*	0		1	*	0		4	*	0		5	*
303-312	*	0		0	*	0		0	*	1		0	*	2		2	*	0		5	*
315-324	*	0		0	*	0		0	*	0		0	*	0		2	*	0		5	*
327-336	*	0		0	*	0		0	*	0		0	*	1		1	*	1		4	*
339-348	*	0		0	*	0		0	*	0		0	*	0		1	*	0		4	*
=>351	*	0		*	*	0		*	*	0		*	*	1		*	*	4		*	*
SUM	*	61		*	104		*	72		*		56		*		33		*		*	*
MEAN(HRS)	*	22.6		*	31.6		*	59.2		*		79.5		*		176.1		*		*	*
ST.DEV(HRS)	*	34.3		*	38.4		*	68.5		*		94.6		*		284.8		*		*	*

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 0313 OSLO 3, NORWAY.

DURATION STATISTICS FOR WAVE HEIGHT

FRIGG PERIOD: DEC 1979 - 1986

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	11	63	*	22	90	*	26	69	*	20	36	*	9	23	*
6	*	2	61	*	13	77	*	10	59	*	6	30	*	6	17	*
9	*	0	61	*	4	73	*	7	52	*	6	24	*	9	8	*
12	*	2	59	*	4	69	*	9	43	*	5	19	*	3	5	*
15	*	2	57	*	4	65	*	6	37	*	6	13	*	1	4	*
18	*	3	54	*	2	63	*	11	26	*	3	10	*	0	4	*
21	*	1	53	*	4	59	*	8	18	*	2	8	*	0	4	*
24	*	1	52	*	7	52	*	3	15	*	1	7	*	3	1	*
27	*	2	50	*	6	46	*	2	13	*	1	6	*	0	1	*
30	*	1	49	*	11	35	*	2	11	*	3	3	*	0	1	*
33	*	1	48	*	5	30	*	0	11	*	0	3	*	0	1	*
36	*	3	45	*	5	25	*	0	11	*	1	2	*	1	0	*
39	*	1	44	*	4	21	*	3	8	*	0	2	*	0	0	*
42	*	4	40	*	1	20	*	4	4	*	1	1	*	0	0	*
45	*	0	40	*	2	18	*	0	4	*	0	1	*	0	0	*
48	*	4	36	*	2	16	*	1	3	*	0	1	*	0	0	*
51	*	2	34	*	0	16	*	0	3	*	0	1	*	0	0	*
54	*	6	28	*	2	14	*	0	3	*	1	0	*	0	0	*
57	*	1	27	*	2	12	*	0	3	*	0	0	*	0	0	*
60	*	0	27	*	1	11	*	1	2	*	0	0	*	0	0	*
63	*	3	24	*	1	10	*	0	2	*	0	0	*	0	0	*
66	*	0	24	*	2	8	*	0	2	*	0	0	*	0	0	*
69	*	0	24	*	1	7	*	1	1	*	0	0	*	0	0	*
72	*	2	22	*	1	6	*	1	0	*	0	0	*	0	0	*
75	*	1	21	*	0	6	*	0	0	*	0	0	*	0	0	*
78	*	0	21	*	1	5	*	0	0	*	0	0	*	0	0	*
81	*	1	20	*	0	5	*	0	0	*	0	0	*	0	0	*
84	*	0	20	*	0	5	*	0	0	*	0	0	*	0	0	*
87-96	*	6	14	*	2	3	*	0	0	*	0	0	*	0	0	*
99-108	*	1	13	*	0	3	*	0	0	*	0	0	*	0	0	*
111-120	*	2	11	*	0	3	*	0	0	*	0	0	*	0	0	*
123-132	*	0	11	*	1	2	*	0	0	*	0	0	*	0	0	*
135-144	*	3	8	*	0	2	*	0	0	*	0	0	*	0	0	*
147-156	*	2	6	*	1	1	*	0	0	*	0	0	*	0	0	*
159-168	*	0	6	*	0	1	*	0	0	*	0	0	*	0	0	*
171-180	*	0	6	*	0	1	*	0	0	*	0	0	*	0	0	*
183-192	*	2	4	*	1	0	*	0	0	*	0	0	*	0	0	*
195-204	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	1	3	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	3	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	2	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	2	*	*	0	*	*	0	*	*	0	*	*	0	*	*

SUM	*	74	*	112	*	95	*	56	*	32	*
MEAN(HRS)	*	76.6	*	28.1	*	15.6	*	11.9	*	9.5	*
ST.DEV(HRS)	*	121.3	*	29.7	*	14.6	*	11.0	*	7.6	*

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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 0313 OSLO 3, NORWAY.

N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION, P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)																		
	20				30				40				50				60		
	*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*			
3	*	24	46	*	24	84	*	17	75	*	9	44	*	5	24	*			
6	*	13	33	*	10	74	*	1	74	*	2	42	*	1	23	*			
9	*	6	27	*	6	68	*	8	66	*	3	39	*	0	23	*			
12	*	4	23	*	6	62	*	6	60	*	1	38	*	1	22	*			
15	*	5	18	*	7	55	*	2	58	*	1	37	*	0	22	*			
18	*	2	16	*	4	51	*	2	56	*	1	36	*	0	22	*			
21	*	1	15	*	10	41	*	3	53	*	1	35	*	0	22	*			
24	*	2	13	*	3	38	*	3	50	*	1	34	*	0	22	*			
27	*	1	12	*	0	38	*	4	46	*	1	33	*	0	22	*			
30	*	1	11	*	2	36	*	4	42	*	0	33	*	0	22	*			
33	*	3	8	*	4	32	*	3	39	*	2	31	*	0	22	*			
36	*	2	6	*	6	26	*	1	38	*	2	29	*	0	22	*			
39	*	0	6	*	2	24	*	4	34	*	2	27	*	0	22	*			
42	*	1	5	*	2	22	*	0	34	*	1	26	*	0	22	*			
45	*	2	3	*	2	20	*	1	33	*	0	26	*	1	21	*			
48	*	0	3	*	1	19	*	2	31	*	0	26	*	1	20	*			
51	*	0	3	*	2	17	*	1	30	*	0	26	*	1	19	*			
54	*	0	3	*	1	16	*	3	27	*	0	26	*	0	19	*			
57	*	1	2	*	4	12	*	2	25	*	0	26	*	0	19	*			
60	*	1	1	*	3	9	*	0	25	*	1	25	*	0	19	*			
63	*	0	1	*	3	6	*	0	25	*	0	25	*	0	19	*			
66	*	0	1	*	1	5	*	1	24	*	1	24	*	0	19	*			
69	*	0	1	*	1	4	*	1	23	*	0	24	*	0	19	*			
72	*	0	1	*	0	4	*	3	20	*	0	24	*	0	19	*			
75	*	0	1	*	1	3	*	2	18	*	0	24	*	0	19	*			
78	*	0	1	*	1	2	*	1	17	*	0	24	*	1	18	*			
81	*	0	1	*	0	2	*	1	16	*	1	23	*	0	18	*			
84	*	0	1	*	0	2	*	1	15	*	0	23	*	0	18	*			
87-96	*	0	1	*	0	2	*	1	14	*	3	20	*	0	18	*			
99-108	*	0	1	*	0	2	*	4	10	*	3	17	*	1	17	*			
111-120	*	0	1	*	0	2	*	0	10	*	0	17	*	0	17	*			
123-132	*	0	1	*	0	2	*	1	9	*	1	16	*	2	15	*			
135-144	*	1	0	*	0	2	*	0	9	*	0	16	*	0	15	*			
147-156	*	0	0	*	0	2	*	3	6	*	0	16	*	1	14	*			
159-168	*	0	0	*	0	2	*	1	5	*	2	14	*	0	14	*			
171-180	*	0	0	*	1	1	*	1	4	*	2	12	*	3	11	*			
183-192	*	0	0	*	0	1	*	1	3	*	0	12	*	1	10	*			
195-204	*	0	0	*	1	0	*	0	3	*	1	11	*	0	10	*			
207-216	*	0	0	*	0	0	*	1	2	*	0	11	*	0	10	*			
219-228	*	0	0	*	0	0	*	0	2	*	1	10	*	0	10	*			
231-240	*	0	0	*	0	0	*	0	2	*	0	10	*	0	10	*			
243-252	*	0	0	*	0	0	*	0	2	*	1	9	*	1	9	*			
255-264	*	0	0	*	0	0	*	0	2	*	0	9	*	0	9	*			
267-276	*	0	0	*	0	0	*	1	1	*	1	8	*	2	7	*			
279-288	*	0	0	*	0	0	*	0	1	*	2	6	*	1	6	*			
291-300	*	0	0	*	0	0	*	1	0	*	1	5	*	0	6	*			
303-312	*	0	0	*	0	0	*	0	0	*	2	3	*	1	5	*			
315-324	*	0	0	*	0	0	*	0	0	*	1	2	*	1	4	*			
327-336	*	0	0	*	0	0	*	0	0	*	0	2	*	2	2	*			
339-348	*	0	0	*	0	0	*	0	0	*	0	2	*	0	2	*			
=>351	*	0		*	0		*	0		*	2		*	2		*			

SUM	*	70		*	108		*	92		*	53		*	29		*
MEAN(HRS)	*	14.9		*	26.3		*	49.3		*	108.0		*	175.2		*
ST. DEV(HRS)	*	20.0		*	30.0		*	58.5		*	123.6		*	177.5		*

 THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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SEASONAL VALUES

N IS THE NUMBER OF CASES OF EXACTLY THAT DURATION, P IS THE NUMBER OF CASES WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS (DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*				
3	*	60	157	*	43	117	*	24	83	*	27	41	*	9	20	*
6	*	21	136	*	22	95	*	17	66	*	12	29	*	4	16	*
9	*	6	130	*	12	83	*	12	54	*	6	23	*	6	10	*
12	*	14	116	*	7	76	*	3	51	*	4	19	*	1	9	*
15	*	9	107	*	6	70	*	10	41	*	3	16	*	3	6	*
18	*	11	96	*	5	65	*	7	34	*	5	11	*	1	5	*
21	*	7	89	*	8	57	*	9	25	*	1	10	*	1	4	*
24	*	6	83	*	3	54	*	2	23	*	2	8	*	3	1	*
27	*	8	75	*	8	46	*	2	21	*	4	4	*	1	0	*
30	*	2	73	*	3	43	*	5	16	*	2	2	*	0	0	*
33	*	7	66	*	9	34	*	5	11	*	0	2	*	0	0	*
36	*	5	61	*	3	31	*	1	10	*	0	2	*	0	0	*
39	*	3	58	*	2	29	*	0	10	*	1	1	*	0	0	*
42	*	4	54	*	3	26	*	2	8	*	1	0	*	0	0	*
45	*	3	51	*	2	24	*	1	7	*	0	0	*	0	0	*
48	*	4	47	*	1	23	*	1	6	*	0	0	*	0	0	*
51	*	6	41	*	2	21	*	2	4	*	0	0	*	0	0	*
54	*	0	41	*	4	17	*	0	4	*	0	0	*	0	0	*
57	*	2	39	*	2	15	*	2	2	*	0	0	*	0	0	*
60	*	1	38	*	2	13	*	1	1	*	0	0	*	0	0	*
63	*	1	37	*	1	12	*	1	0	*	0	0	*	0	0	*
66	*	1	36	*	2	10	*	0	0	*	0	0	*	0	0	*
69	*	4	32	*	2	8	*	0	0	*	0	0	*	0	0	*
72	*	1	31	*	0	8	*	0	0	*	0	0	*	0	0	*
75	*	0	31	*	0	8	*	0	0	*	0	0	*	0	0	*
78	*	2	29	*	0	8	*	0	0	*	0	0	*	0	0	*
81	*	6	23	*	0	8	*	0	0	*	0	0	*	0	0	*
84	*	2	21	*	0	8	*	0	0	*	0	0	*	0	0	*
87-96	*	2	19	*	1	7	*	0	0	*	0	0	*	0	0	*
99-108	*	4	15	*	4	3	*	0	0	*	0	0	*	0	0	*
111-120	*	2	13	*	1	2	*	0	0	*	0	0	*	0	0	*
123-132	*	0	13	*	1	1	*	0	0	*	0	0	*	0	0	*
135-144	*	0	13	*	1	0	*	0	0	*	0	0	*	0	0	*
147-156	*	3	10	*	0	0	*	0	0	*	0	0	*	0	0	*
159-168	*	2	8	*	0	0	*	0	0	*	0	0	*	0	0	*
171-180	*	2	6	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	6	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	2	4	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	1	3	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	1	2	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	1	1	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	1	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	1	0	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	0	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	0		*	0		*	0		*	0		*	0		*

SUM * 217 * 160 * 107 * 68 * 29 *

MEAN (HRS) * 34.8 * 23.1 * 16.4 * 10.4 * 10.3 *

ST. DEV (HRS) * 48.9 * 26.9 * 14.7 * 9.6 * 7.5 *

THE NORWEGIAN METEOROLOGICAL INSTITUTE,
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0313 OSLO 3, NORWAY.

N IS THE NUMBER OF CASES OF EXACTLY THAT DURATION, P IS THE NUMBER OF CASES WITH DURATION > THE VALUE

 CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)																		
	20				30				40				50				60		
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	N	P		
3	*	58	164	*	27	136	*	15	93	*	10	59	*	1	29	*			
6	*	20	144	*	11	125	*	10	83	*	3	56	*	0	29	*			
9	*	13	131	*	7	118	*	4	79	*	0	56	*	1	28	*			
12	*	10	121	*	3	115	*	3	76	*	1	55	*	1	27	*			
15	*	6	115	*	7	108	*	1	75	*	2	53	*	0	27	*			
18	*	9	106	*	5	103	*	1	74	*	2	51	*	0	27	*			
21	*	4	102	*	7	96	*	4	70	*	1	50	*	0	27	*			
24	*	3	99	*	3	93	*	3	67	*	1	49	*	1	26	*			
27	*	4	95	*	2	91	*	5	62	*	1	48	*	0	26	*			
30	*	10	85	*	2	89	*	2	60	*	2	46	*	0	26	*			
33	*	2	83	*	4	85	*	1	59	*	1	45	*	1	25	*			
36	*	4	79	*	3	82	*	1	58	*	0	45	*	0	25	*			
39	*	4	75	*	2	80	*	5	53	*	0	45	*	0	25	*			
42	*	7	68	*	4	76	*	0	53	*	3	42	*	0	25	*			
45	*	1	67	*	4	72	*	0	53	*	2	40	*	0	25	*			
48	*	2	65	*	2	70	*	2	51	*	0	40	*	0	25	*			
51	*	2	63	*	2	68	*	0	51	*	0	40	*	0	25	*			
54	*	2	61	*	2	66	*	0	51	*	0	40	*	2	23	*			
57	*	6	55	*	1	65	*	1	50	*	1	39	*	0	23	*			
60	*	4	51	*	2	63	*	0	50	*	0	39	*	1	22	*			
63	*	2	49	*	2	61	*	0	50	*	1	38	*	0	22	*			
66	*	1	48	*	2	59	*	0	50	*	0	38	*	0	22	*			
69	*	3	45	*	1	58	*	1	49	*	0	38	*	0	22	*			
72	*	1	44	*	3	55	*	0	49	*	0	38	*	0	22	*			
75	*	0	44	*	0	55	*	3	46	*	0	38	*	0	22	*			
78	*	3	41	*	0	55	*	1	45	*	2	36	*	0	22	*			
81	*	3	38	*	3	52	*	1	44	*	0	36	*	0	22	*			
84	*	2	36	*	3	49	*	0	44	*	0	36	*	1	21	*			
87-96	*	5	31	*	3	46	*	5	39	*	2	34	*	2	19	*			
99-108	*	3	28	*	2	44	*	5	34	*	1	33	*	0	19	*			
111-120	*	5	23	*	5	39	*	2	32	*	0	33	*	0	19	*			
123-132	*	2	21	*	5	34	*	2	30	*	2	31	*	0	19	*			
135-144	*	0	21	*	3	31	*	2	28	*	0	31	*	1	18	*			
147-156	*	1	20	*	0	31	*	1	27	*	1	30	*	0	18	*			
159-168	*	1	19	*	3	28	*	1	26	*	0	30	*	0	18	*			
171-180	*	0	19	*	1	27	*	0	26	*	1	29	*	0	18	*			
183-192	*	3	16	*	2	25	*	4	22	*	2	27	*	0	18	*			
195-204	*	2	14	*	0	25	*	0	22	*	3	24	*	0	18	*			
207-216	*	0	14	*	0	25	*	2	20	*	0	24	*	1	17	*			
219-228	*	2	12	*	0	25	*	0	20	*	1	23	*	0	17	*			
231-240	*	1	11	*	1	24	*	0	20	*	1	22	*	0	17	*			
243-252	*	3	8	*	3	21	*	1	19	*	2	20	*	0	17	*			
255-264	*	1	7	*	0	21	*	0	19	*	1	19	*	0	17	*			
267-276	*	1	6	*	1	20	*	0	19	*	0	19	*	0	17	*			
279-288	*	0	6	*	3	17	*	0	19	*	1	18	*	0	17	*			
291-300	*	1	5	*	1	16	*	1	18	*	0	18	*	0	17	*			
303-312	*	0	5	*	0	16	*	0	18	*	0	18	*	0	17	*			
315-324	*	1	4	*	1	15	*	0	18	*	1	17	*	0	17	*			
327-336	*	2	2	*	1	14	*	0	18	*	1	16	*	0	17	*			
339-348	*	0	2	*	1	13	*	0	18	*	0	16	*	0	17	*			
=>351	*	2		*	13		*	18		*	16		*	17		*			
SUM	*	222		*	163		*	108		*	69		*	30		*			
MEAN(HRS)	*	49.3		*	95.5		*	191.1		*	521.5		*	1331.6		*			
ST.DEV(HRS)	*	75.4		*	137.4		*	382.1		*	1058.6		*	1775.0		*			

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N IS THE NUMBER OF CASES OF EXACTLY THAT DURATION, P IS THE NUMBER OF CASES WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)																				
	20		30		40		50		60												
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	N					
3	*	59		128	*	16		41	*	6		14	*	2		2	*	0		0	*
6	*	29		99	*	11		30	*	4		10	*	2		0	*	0		0	*
9	*	19		80	*	9		21	*	4		6	*	0		0	*	0		0	*
12	*	8		72	*	3		18	*	3		3	*	0		0	*	0		0	*
15	*	10		62	*	2		16	*	2		1	*	0		0	*	0		0	*
18	*	6		56	*	5		11	*	0		1	*	0		0	*	0		0	*
21	*	8		48	*	2		9	*	0		1	*	0		0	*	0		0	*
24	*	9		39	*	2		7	*	0		1	*	0		0	*	0		0	*
27	*	5		34	*	0		7	*	0		1	*	0		0	*	0		0	*
30	*	3		31	*	1		6	*	0		1	*	0		0	*	0		0	*
33	*	5		26	*	2		4	*	0		1	*	0		0	*	0		0	*
36	*	6		20	*	0		4	*	0		1	*	0		0	*	0		0	*
39	*	5		15	*	0		4	*	1		0	*	0		0	*	0		0	*
42	*	1		14	*	0		4	*	0		0	*	0		0	*	0		0	*
45	*	2		12	*	1		3	*	0		0	*	0		0	*	0		0	*
48	*	0		12	*	2		1	*	0		0	*	0		0	*	0		0	*
51	*	2		10	*	0		1	*	0		0	*	0		0	*	0		0	*
54	*	2		8	*	1		0	*	0		0	*	0		0	*	0		0	*
57	*	1		7	*	0		0	*	0		0	*	0		0	*	0		0	*
60	*	0		7	*	0		0	*	0		0	*	0		0	*	0		0	*
63	*	2		5	*	0		0	*	0		0	*	0		0	*	0		0	*
66	*	1		4	*	0		0	*	0		0	*	0		0	*	0		0	*
69	*	2		2	*	0		0	*	0		0	*	0		0	*	0		0	*
72	*	1		1	*	0		0	*	0		0	*	0		0	*	0		0	*
75	*	0		1	*	0		0	*	0		0	*	0		0	*	0		0	*
78	*	1		0	*	0		0	*	0		0	*	0		0	*	0		0	*
81	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
84	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
87-96	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
99-108	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
111-120	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
123-132	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
135-144	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
147-156	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
159-168	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
171-180	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
183-192	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
195-204	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
207-216	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
219-228	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
231-240	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
243-252	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
255-264	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
267-276	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
279-288	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
291-300	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
303-312	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
315-324	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
327-336	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
339-348	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
=>351	*	0		0	*	0		0	*	0		0	*	0		0	*	0		0	*
SUM	*	187		57	*	20		4	*	0		0	*	0		0	*	0		0	*
MEAN(HRS)	*	15.7		12.8	*	9.1		4.5	*	0.0		0.0	*	0.0		0.0	*	0.0		0.0	*
ST.DEV(HRS)	*	16.6		12.6	*	7.9		1.5	*	0.0		0.0	*	0.0		0.0	*	0.0		0.0	*

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CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	28	156	*	9	48	*	1	19	*	0	4	*	0	0	*
6	*	14	142	*	1	47	*	2	17	*	0	4	*	0	0	*
9	*	7	135	*	1	46	*	1	16	*	1	3	*	0	0	*
12	*	6	129	*	1	45	*	0	16	*	0	3	*	0	0	*
15	*	8	121	*	0	45	*	1	15	*	1	2	*	0	0	*
18	*	7	114	*	0	45	*	0	15	*	0	2	*	0	0	*
21	*	8	106	*	1	44	*	0	15	*	0	2	*	0	0	*
24	*	4	102	*	0	44	*	0	15	*	0	2	*	0	0	*
27	*	2	100	*	0	44	*	0	15	*	0	2	*	0	0	*
30	*	4	96	*	0	44	*	0	15	*	0	2	*	0	0	*
33	*	5	91	*	1	43	*	0	15	*	0	2	*	0	0	*
36	*	3	88	*	1	42	*	0	15	*	0	2	*	0	0	*
39	*	1	87	*	1	41	*	0	15	*	0	2	*	0	0	*
42	*	3	84	*	0	41	*	0	15	*	0	2	*	0	0	*
45	*	2	82	*	0	41	*	0	15	*	0	2	*	0	0	*
48	*	6	76	*	2	39	*	0	15	*	0	2	*	0	0	*
51	*	6	70	*	0	39	*	0	15	*	0	2	*	0	0	*
54	*	3	67	*	1	38	*	0	15	*	0	2	*	0	0	*
57	*	6	61	*	0	38	*	0	15	*	0	2	*	0	0	*
60	*	4	57	*	1	37	*	0	15	*	0	2	*	0	0	*
63	*	2	55	*	0	37	*	0	15	*	0	2	*	0	0	*
66	*	0	55	*	0	37	*	0	15	*	0	2	*	0	0	*
69	*	1	54	*	0	37	*	0	15	*	0	2	*	0	0	*
72	*	1	53	*	0	37	*	0	15	*	0	2	*	0	0	*
75	*	1	52	*	1	36	*	0	15	*	0	2	*	0	0	*
78	*	2	50	*	0	36	*	0	15	*	0	2	*	0	0	*
81	*	2	48	*	1	35	*	0	15	*	0	2	*	0	0	*
84	*	1	47	*	0	35	*	0	15	*	0	2	*	0	0	*
87- 96	*	3	44	*	1	34	*	0	15	*	0	2	*	0	0	*
99-108	*	4	40	*	1	33	*	0	15	*	0	2	*	0	0	*
111-120	*	5	35	*	1	32	*	0	15	*	0	2	*	0	0	*
123-132	*	3	32	*	1	31	*	0	15	*	0	2	*	0	0	*
135-144	*	3	29	*	1	30	*	0	15	*	0	2	*	0	0	*
147-156	*	2	27	*	1	29	*	0	15	*	0	2	*	0	0	*
159-168	*	1	26	*	1	28	*	0	15	*	0	2	*	0	0	*
171-180	*	1	25	*	0	28	*	0	15	*	0	2	*	0	0	*
183-192	*	1	24	*	1	27	*	0	15	*	0	2	*	0	0	*
195-204	*	4	20	*	1	26	*	0	15	*	0	2	*	0	0	*
207-216	*	1	19	*	0	26	*	0	15	*	0	2	*	0	0	*
219-228	*	0	19	*	3	23	*	0	15	*	0	2	*	0	0	*
231-240	*	3	16	*	1	22	*	0	15	*	0	2	*	0	0	*
243-252	*	2	14	*	0	22	*	0	15	*	0	2	*	0	0	*
255-264	*	0	14	*	1	21	*	0	15	*	0	2	*	0	0	*
267-276	*	3	11	*	1	20	*	0	15	*	0	2	*	0	0	*
279-288	*	0	11	*	0	20	*	0	15	*	0	2	*	0	0	*
291-300	*	2	9	*	1	19	*	0	15	*	0	2	*	0	0	*
303-312	*	1	8	*	0	19	*	1	14	*	0	2	*	0	0	*
315-324	*	1	7	*	0	19	*	0	14	*	0	2	*	0	0	*
327-336	*	0	7	*	0	19	*	0	14	*	0	2	*	0	0	*
339-348	*	0	7	*	2	17	*	0	14	*	0	2	*	0	0	*
=>351	*	7		*	17		*	14		*	2		*	0		*
SUM	*	184		*	57		*	20		*	4		*	0		*
MEAN(HRS)	*	75.6		*	273.9		*	731.2		*	764.2		*	0.0		*
ST.DEV(HRS)	*	105.9		*	316.1		*	632.9		*	840.3		*	0.0		*

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CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P				
3	*	36	207	*	67	196	*	55	122	*	32	67	*	20	34	*
6	*	24	183	*	29	167	*	28	94	*	16	51	*	10	24	*
9	*	14	169	*	28	139	*	13	81	*	7	44	*	6	18	*
12	*	10	159	*	14	125	*	8	73	*	14	30	*	8	10	*
15	*	13	146	*	18	107	*	11	62	*	8	22	*	0	10	*
18	*	8	138	*	18	89	*	10	52	*	5	17	*	5	5	*
21	*	11	127	*	6	83	*	13	39	*	1	16	*	2	3	*
24	*	11	116	*	12	71	*	4	35	*	3	13	*	1	2	*
27	*	4	112	*	9	62	*	4	31	*	6	7	*	0	2	*
30	*	7	105	*	2	60	*	8	23	*	1	6	*	0	2	*
33	*	8	97	*	5	55	*	4	19	*	2	4	*	0	2	*
36	*	3	94	*	8	47	*	2	17	*	0	4	*	1	1	*
39	*	5	89	*	4	43	*	2	15	*	1	3	*	0	1	*
42	*	7	82	*	5	38	*	1	14	*	0	3	*	1	0	*
45	*	5	77	*	3	35	*	4	10	*	1	2	*	0	0	*
48	*	4	73	*	3	32	*	2	8	*	1	1	*	0	0	*
51	*	7	66	*	5	27	*	0	8	*	1	0	*	0	0	*
54	*	1	65	*	2	25	*	2	6	*	0	0	*	0	0	*
57	*	4	61	*	2	23	*	0	6	*	0	0	*	0	0	*
60	*	3	58	*	0	23	*	2	4	*	0	0	*	0	0	*
63	*	7	51	*	1	22	*	2	2	*	0	0	*	0	0	*
66	*	2	49	*	4	18	*	0	2	*	0	0	*	0	0	*
69	*	2	47	*	2	16	*	0	2	*	0	0	*	0	0	*
72	*	0	47	*	1	15	*	0	2	*	0	0	*	0	0	*
75	*	2	45	*	0	15	*	0	2	*	0	0	*	0	0	*
78	*	3	42	*	1	14	*	0	2	*	0	0	*	0	0	*
81	*	4	38	*	1	13	*	0	2	*	0	0	*	0	0	*
84	*	1	37	*	0	13	*	0	2	*	0	0	*	0	0	*
87- 96	*	10	27	*	5	8	*	2	0	*	0	0	*	0	0	*
99-108	*	2	25	*	2	6	*	0	0	*	0	0	*	0	0	*
111-120	*	3	22	*	1	5	*	0	0	*	0	0	*	0	0	*
123-132	*	3	19	*	3	2	*	0	0	*	0	0	*	0	0	*
135-144	*	3	16	*	1	1	*	0	0	*	0	0	*	0	0	*
147-156	*	3	13	*	0	1	*	0	0	*	0	0	*	0	0	*
159-168	*	0	13	*	1	0	*	0	0	*	0	0	*	0	0	*
171-180	*	1	12	*	0	0	*	0	0	*	0	0	*	0	0	*
183-192	*	0	12	*	0	0	*	0	0	*	0	0	*	0	0	*
195-204	*	1	11	*	0	0	*	0	0	*	0	0	*	0	0	*
207-216	*	1	10	*	0	0	*	0	0	*	0	0	*	0	0	*
219-228	*	0	10	*	0	0	*	0	0	*	0	0	*	0	0	*
231-240	*	2	8	*	0	0	*	0	0	*	0	0	*	0	0	*
243-252	*	1	7	*	0	0	*	0	0	*	0	0	*	0	0	*
255-264	*	2	5	*	0	0	*	0	0	*	0	0	*	0	0	*
267-276	*	1	4	*	0	0	*	0	0	*	0	0	*	0	0	*
279-288	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
291-300	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
303-312	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
315-324	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
327-336	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
339-348	*	0	4	*	0	0	*	0	0	*	0	0	*	0	0	*
=>351	*	4		*	0		*	0		*	0		*	0		*

SUM	*	243		*	263		*	177		*	99		*	54		*
MEAN(HRS)	*	47.9		*	22.2		*	15.5		*	11.8		*	9.3		*
ST.DEV(HRS)	*	68.7		*	27.1		*	16.5		*	10.6		*	8.2		*

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CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	60	182	*	52	210	*	30	146	*	18	80	*	5	49	*
6	*	32	150	*	26	184	*	17	129	*	5	75	*	5	44	*
9	*	17	133	*	19	165	*	6	123	*	2	73	*	2	42	*
12	*	11	122	*	11	154	*	5	118	*	0	73	*	1	41	*
15	*	17	105	*	5	149	*	6	112	*	1	72	*	0	41	*
18	*	6	99	*	10	139	*	5	107	*	2	70	*	1	40	*
21	*	9	90	*	11	128	*	8	99	*	4	66	*	0	40	*
24	*	11	79	*	9	119	*	3	96	*	4	62	*	1	39	*
27	*	11	68	*	10	109	*	4	92	*	4	58	*	0	39	*
30	*	6	62	*	11	98	*	3	89	*	2	56	*	1	38	*
33	*	7	55	*	7	91	*	4	85	*	0	56	*	2	36	*
36	*	2	53	*	9	82	*	3	82	*	3	53	*	1	35	*
39	*	5	48	*	1	81	*	3	79	*	2	51	*	0	35	*
42	*	4	44	*	3	78	*	0	79	*	2	49	*	0	35	*
45	*	5	39	*	0	78	*	4	75	*	0	49	*	0	35	*
48	*	3	36	*	1	77	*	3	72	*	0	49	*	0	35	*
51	*	6	30	*	5	72	*	2	70	*	2	47	*	0	35	*
54	*	2	28	*	3	69	*	1	69	*	1	46	*	2	33	*
57	*	2	26	*	7	62	*	2	67	*	2	44	*	0	33	*
60	*	0	26	*	1	61	*	2	65	*	3	41	*	1	32	*
63	*	1	25	*	2	59	*	3	62	*	0	41	*	1	31	*
66	*	2	23	*	1	58	*	1	61	*	0	41	*	1	30	*
69	*	5	18	*	3	55	*	0	61	*	0	41	*	1	29	*
72	*	3	15	*	2	53	*	2	59	*	1	40	*	0	29	*
75	*	0	15	*	4	49	*	2	57	*	0	40	*	0	29	*
78	*	1	14	*	2	47	*	0	57	*	0	40	*	0	29	*
81	*	2	12	*	2	45	*	0	57	*	0	40	*	0	29	*
84	*	0	12	*	3	42	*	2	55	*	0	40	*	0	29	*
87- 96	*	4	8	*	11	31	*	6	49	*	3	37	*	0	29	*
99-108	*	2	6	*	5	26	*	11	38	*	3	34	*	0	29	*
111-120	*	2	4	*	5	21	*	3	35	*	3	31	*	3	26	*
123-132	*	1	3	*	4	17	*	4	31	*	1	30	*	1	25	*
135-144	*	0	3	*	3	14	*	2	29	*	2	28	*	2	23	*
147-156	*	0	3	*	1	13	*	6	23	*	1	27	*	0	23	*
159-168	*	1	2	*	4	9	*	1	22	*	0	27	*	1	22	*
171-180	*	1	1	*	0	9	*	3	19	*	2	25	*	0	22	*
183-192	*	0	1	*	2	7	*	1	18	*	2	23	*	3	19	*
195-204	*	0	1	*	1	6	*	4	14	*	1	22	*	0	19	*
207-216	*	0	1	*	0	6	*	0	14	*	3	19	*	1	18	*
219-228	*	1	0	*	1	5	*	3	11	*	1	18	*	1	17	*
231-240	*	0	0	*	1	4	*	0	11	*	1	17	*	0	17	*
243-252	*	0	0	*	0	4	*	2	9	*	1	16	*	1	16	*
255-264	*	0	0	*	0	4	*	2	7	*	0	16	*	0	16	*
267-276	*	0	0	*	1	3	*	1	6	*	0	16	*	0	16	*
279-288	*	0	0	*	0	3	*	0	6	*	0	16	*	1	15	*
291-300	*	0	0	*	1	2	*	0	6	*	2	14	*	0	15	*
303-312	*	0	0	*	0	2	*	1	5	*	2	12	*	0	15	*
315-324	*	0	0	*	0	2	*	1	4	*	0	12	*	0	15	*
327-336	*	0	0	*	0	2	*	0	4	*	1	11	*	1	14	*
339-348	*	0	0	*	0	2	*	1	3	*	0	11	*	0	14	*
=>351	*	0		*	2		*	3		*	11		*	14		*

SUM	*	242	*	262	*	176	*	98	*	54	*
MEAN(HRS)	*	24.8	*	42.9	*	72.9	*	122.0	*	225.9	*
ST. DEV(HRS)	*	31.1	*	59.6	*	101.6	*	158.7	*	295.2	*

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N IS THE NUMBER OF CASES OF EXACTLY THAT DURATION, P IS THE NUMBER OF CASES WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	37	180	53	230	57	160	38	102	33	59						
6	14	166	36	194	24	136	21	81	19	40						
9	12	154	18	176	18	118	14	67	13	27						
12	8	146	22	154	20	98	13	54	8	19						
15	6	140	9	145	10	88	12	42	3	16						
18	9	131	13	132	18	70	9	33	4	12						
21	4	127	13	119	18	52	6	27	4	8						
24	4	123	16	103	7	45	5	22	4	4						
27	6	117	11	92	6	39	2	20	1	3						
30	3	114	16	76	5	34	7	13	1	2						
33	4	110	9	67	1	33	2	11	0	2						
36	8	102	7	60	1	32	4	7	1	1						
39	3	99	8	52	5	27	1	6	1	0						
42	7	92	2	50	8	19	2	4	0	0						
45	5	87	5	45	2	17	2	2	0	0						
48	8	79	5	40	1	16	1	1	0	0						
51	6	73	0	40	0	16	0	1	0	0						
54	6	67	2	38	4	12	1	0	0	0						
57	1	66	3	35	3	9	0	0	0	0						
60	1	65	2	33	2	7	0	0	0	0						
63	5	60	2	31	1	6	0	0	0	0						
66	1	59	4	27	1	5	0	0	0	0						
69	1	58	4	23	1	4	0	0	0	0						
72	4	54	3	20	1	3	0	0	0	0						
75	2	52	0	20	1	2	0	0	0	0						
78	0	52	2	18	1	1	0	0	0	0						
81	5	47	1	17	0	1	0	0	0	0						
84	2	45	0	17	0	1	0	0	0	0						
87- 96	10	35	3	14	0	1	0	0	0	0						
99-108	5	30	3	11	1	0	0	0	0	0						
111-120	4	26	2	9	0	0	0	0	0	0						
123-132	1	25	2	7	0	0	0	0	0	0						
135-144	7	18	1	6	0	0	0	0	0	0						
147-156	3	15	2	4	0	0	0	0	0	0						
159-168	1	14	1	3	0	0	0	0	0	0						
171-180	1	13	0	3	0	0	0	0	0	0						
183-192	3	10	2	1	0	0	0	0	0	0						
195-204	0	10	0	1	0	0	0	0	0	0						
207-216	2	8	0	1	0	0	0	0	0	0						
219-228	2	6	0	1	0	0	0	0	0	0						
231-240	0	6	0	1	0	0	0	0	0	0						
243-252	0	6	0	1	0	0	0	0	0	0						
255-264	1	5	0	1	0	0	0	0	0	0						
267-276	0	5	1	0	0	0	0	0	0	0						
279-288	0	5	0	0	0	0	0	0	0	0						
291-300	0	5	0	0	0	0	0	0	0	0						
303-312	0	5	0	0	0	0	0	0	0	0						
315-324	2	3	0	0	0	0	0	0	0	0						
327-336	1	2	0	0	0	0	0	0	0	0						
339-348	0	2	0	0	0	0	0	0	0	0						
=>351	2		0		0		0									

SUM	217	283	217	140	92											
MEAN(HRS)	57.5	27.7	17.6	13.6	9.3											
ST.DEV(HRS)	87.1	34.5	17.6	11.6	7.9											

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CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS (DM)															
	20		30		40		50		60							
	N	P	N	P	N	P	N	P	N	P	N	P	N	P	N	P
3	66	149	66	214	39	177	25	114	15	75						
6	27	122	20	194	5	172	8	106	4	71						
9	16	106	18	176	14	158	7	99	2	69						
12	18	88	14	162	10	148	4	95	2	67						
15	13	75	16	146	4	144	2	93	0	67						
18	6	69	7	139	9	135	3	90	2	65						
21	6	63	17	122	6	129	3	87	1	64						
24	10	53	10	112	5	124	1	86	1	63						
27	1	52	6	106	11	113	1	85	0	63						
30	7	45	4	102	6	107	1	84	0	63						
33	4	41	7	95	9	98	4	80	0	63						
36	3	38	11	84	4	94	2	78	3	60						
39	2	36	5	79	7	87	5	73	0	60						
42	1	35	6	73	2	85	2	71	2	58						
45	7	28	5	68	1	84	2	69	2	56						
48	2	26	4	64	5	79	0	69	1	55						
51	2	24	3	61	1	78	0	69	3	52						
54	1	23	5	56	6	72	0	69	2	50						
57	4	19	5	51	2	70	2	67	0	50						
60	4	15	6	45	0	70	4	63	0	50						
63	2	13	5	40	2	68	1	62	1	49						
66	1	12	3	37	2	66	2	60	1	48						
69	0	12	2	35	3	63	3	57	1	47						
72	2	10	1	34	4	59	0	57	0	47						
75	0	10	3	31	2	57	0	57	1	46						
78	0	10	4	27	5	52	0	57	2	44						
81	2	8	2	25	1	51	1	56	0	44						
84	0	8	1	24	4	47	0	56	0	44						
87-96	2	6	7	17	6	41	4	52	0	44						
99-108	0	6	1	16	6	35	5	47	1	43						
111-120	0	6	2	14	5	30	5	42	2	41						
123-132	2	4	3	11	2	28	4	38	2	39						
135-144	2	2	1	10	1	27	3	35	1	38						
147-156	0	2	0	10	3	24	0	35	1	37						
159-168	1	1	1	9	3	21	3	32	1	36						
171-180	1	0	1	8	3	18	3	29	3	33						
183-192	0	0	1	7	1	17	2	27	4	29						
195-204	0	0	3	4	2	15	2	25	0	29						
207-216	0	0	0	4	4	11	0	25	3	26						
219-228	0	0	1	3	0	11	1	24	1	25						
231-240	0	0	1	2	0	11	1	23	0	25						
243-252	0	0	1	1	0	11	1	22	1	24						
255-264	0	0	1	0	1	10	0	22	1	23						
267-276	0	0	0	0	1	9	3	19	3	20						
279-288	0	0	0	0	2	7	2	17	1	19						
291-300	0	0	0	0	2	5	2	15	0	19						
303-312	0	0	0	0	0	5	4	11	1	18						
315-324	0	0	0	0	0	5	1	10	2	16						
327-336	0	0	0	0	0	5	0	10	3	13						
339-348	0	0	0	0	1	4	0	10	1	12						
=>351	0		0		4		10		12							
SUM	215		280		216		139		90							
MEAN(HRS)	21.3		34.0		62.0		108.8		178.9							
ST.DEV(HRS)	28.9		44.0		83.3		143.2		236.3							

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THE YEAR

DURATION STATISTICS FOR WAVE HEIGHT FRIGG PERIOD: YEAR 1979 - 1986
 N IS THE NUMBER OF EVENTS OF EXACTLY THAT DURATION. P IS THE NUMBER OF EVENTS WITH DURATION > THE VALUE

CASES WITH PARAMETER > LIMITS

DURATION (HOURS)	LIMITS(DM)											
	20		30		40		50		60			
	N	P	N	P	N	P	N	P	N	P	N	P
3	192	672	179	584	142	379	99	212	62	113		
6	88	584	98	486	73	306	51	161	33	80		
9	51	533	67	419	47	259	27	134	25	55		
12	40	493	46	373	34	225	31	103	17	38		
15	38	455	35	338	33	192	23	80	6	32		
18	34	421	41	297	35	157	19	61	10	22		
21	30	391	29	268	40	117	8	53	7	15		
24	30	361	33	235	13	104	10	43	8	7		
27	23	338	28	207	12	92	12	31	2	5		
30	15	323	22	185	18	74	10	21	1	4		
33	24	299	25	160	10	64	4	17	0	4		
36	22	277	18	142	4	60	4	13	2	2		
39	16	261	14	128	8	52	3	10	1	1		
42	19	242	10	118	11	41	3	7	1	0		
45	15	227	11	107	7	34	3	4	0	0		
48	16	211	11	96	4	30	2	2	0	0		
51	21	190	7	89	2	28	1	1	0	0		
54	9	181	9	80	6	22	1	0	0	0		
57	8	173	7	73	5	17	0	0	0	0		
60	5	168	4	69	5	12	0	0	0	0		
63	15	153	4	65	4	8	0	0	0	0		
66	5	148	10	55	1	7	0	0	0	0		
69	9	139	8	47	1	6	0	0	0	0		
72	6	133	4	43	1	5	0	0	0	0		
75	4	129	0	43	1	4	0	0	0	0		
78	6	123	3	40	1	3	0	0	0	0		
81	15	108	2	38	0	3	0	0	0	0		
84	5	103	0	38	0	3	0	0	0	0		
87-96	22	81	9	29	2	1	0	0	0	0		
99-108	11	70	9	20	1	0	0	0	0	0		
111-120	9	61	4	16	0	0	0	0	0	0		
123-132	4	57	6	10	0	0	0	0	0	0		
135-144	10	47	3	7	0	0	0	0	0	0		
147-156	9	38	2	5	0	0	0	0	0	0		
159-168	3	35	2	3	0	0	0	0	0	0		
171-180	4	31	0	3	0	0	0	0	0	0		
183-192	3	28	2	1	0	0	0	0	0	0		
195-204	3	25	0	1	0	0	0	0	0	0		
207-216	4	21	0	1	0	0	0	0	0	0		
219-228	3	18	0	1	0	0	0	0	0	0		
231-240	3	15	0	1	0	0	0	0	0	0		
243-252	1	14	0	1	0	0	0	0	0	0		
255-264	3	11	0	1	0	0	0	0	0	0		
267-276	1	10	1	0	0	0	0	0	0	0		
279-288	0	10	0	0	0	0	0	0	0	0		
291-300	0	10	0	0	0	0	0	0	0	0		
303-312	1	9	0	0	0	0	0	0	0	0		
315-324	2	7	0	0	0	0	0	0	0	0		
327-336	1	6	0	0	0	0	0	0	0	0		
339-348	0	6	0	0	0	0	0	0	0	0		
=>351	6		0	0	0	0	0	0	0	0		
SUM	864		763		521		311		175			
MEAN(HRS)	40.1		23.7		16.3		12.2		9.5			
ST.DEV(HRS)	64.2		29.6		16.5		10.9		7.9			

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CASES WITH PARAMETER <= LIMITS

DURATION (HOURS)	LIMITS (DM)															
	20		30		40		50		60							
*	N	P	*	N	P	*	N	P	*	N	P	*	N	P	*	
3	*	212	651	*	154	608	*	85	435	*	53	257	*	21	153	*
6	*	93	558	*	58	550	*	34	401	*	16	241	*	9	144	*
9	*	53	505	*	45	505	*	25	376	*	10	231	*	5	139	*
12	*	45	460	*	29	476	*	18	358	*	5	226	*	4	135	*
15	*	44	416	*	28	448	*	12	346	*	6	220	*	0	135	*
18	*	28	388	*	22	426	*	15	331	*	7	213	*	3	132	*
21	*	27	361	*	36	390	*	18	313	*	8	205	*	1	131	*
24	*	28	333	*	22	368	*	11	302	*	6	199	*	3	128	*
27	*	18	315	*	18	350	*	20	282	*	6	193	*	0	128	*
30	*	27	288	*	17	333	*	11	271	*	5	188	*	1	127	*
33	*	18	270	*	19	314	*	14	257	*	5	183	*	3	124	*
36	*	12	258	*	24	290	*	8	249	*	5	178	*	4	120	*
39	*	12	246	*	9	281	*	15	234	*	7	171	*	0	120	*
42	*	15	231	*	13	268	*	2	232	*	7	164	*	2	118	*
45	*	15	216	*	9	259	*	5	227	*	4	160	*	2	116	*
48	*	13	203	*	9	250	*	10	217	*	0	160	*	1	115	*
51	*	16	187	*	10	240	*	3	214	*	2	158	*	3	112	*
54	*	8	179	*	11	229	*	7	207	*	1	157	*	6	106	*
57	*	18	161	*	13	216	*	5	202	*	5	152	*	0	106	*
60	*	12	149	*	10	206	*	2	200	*	7	145	*	2	104	*
63	*	7	142	*	9	197	*	5	195	*	2	143	*	2	102	*
66	*	4	138	*	6	191	*	3	192	*	2	141	*	2	100	*
69	*	9	129	*	6	185	*	4	188	*	3	138	*	2	98	*
72	*	7	122	*	6	179	*	6	182	*	1	137	*	0	98	*
75	*	1	121	*	8	171	*	7	175	*	0	137	*	1	97	*
78	*	6	115	*	6	165	*	6	169	*	2	135	*	2	95	*
81	*	9	106	*	8	157	*	2	167	*	1	134	*	0	95	*
84	*	3	103	*	7	150	*	6	161	*	0	134	*	1	94	*
87-96	*	14	89	*	22	128	*	17	144	*	9	125	*	2	92	*
99-108	*	9	80	*	9	119	*	22	122	*	9	116	*	1	91	*
111-120	*	12	68	*	13	106	*	10	112	*	8	108	*	5	86	*
123-132	*	8	60	*	13	93	*	8	104	*	7	101	*	3	83	*
135-144	*	5	55	*	8	85	*	5	99	*	5	96	*	4	79	*
147-156	*	3	52	*	2	83	*	10	89	*	2	94	*	1	78	*
159-168	*	4	48	*	9	74	*	5	84	*	3	91	*	2	76	*
171-180	*	3	45	*	2	72	*	6	78	*	6	85	*	3	73	*
183-192	*	4	41	*	6	66	*	6	72	*	6	79	*	7	66	*
195-204	*	6	35	*	5	61	*	6	66	*	6	73	*	0	66	*
207-216	*	1	34	*	0	61	*	6	60	*	3	70	*	5	61	*
219-228	*	3	31	*	5	56	*	3	57	*	3	67	*	2	59	*
231-240	*	4	27	*	4	52	*	0	57	*	3	64	*	0	59	*
243-252	*	5	22	*	4	48	*	3	54	*	4	60	*	2	57	*
255-264	*	1	21	*	2	46	*	3	51	*	1	59	*	1	56	*
267-276	*	4	17	*	3	43	*	2	49	*	3	56	*	3	53	*
279-288	*	0	17	*	3	40	*	2	47	*	3	53	*	2	51	*
291-300	*	3	14	*	3	37	*	3	44	*	4	49	*	0	51	*
303-312	*	1	13	*	0	37	*	2	42	*	6	43	*	1	50	*
315-324	*	2	11	*	1	36	*	1	41	*	2	41	*	2	48	*
327-336	*	2	9	*	1	35	*	0	41	*	2	39	*	4	44	*
339-348	*	0	9	*	3	32	*	2	39	*	0	39	*	1	43	*
=>351	*	9		*	32		*	39		*	39		*	43		*
SUM	*	863		*	762		*	520		*	310		*	174		*
MEAN(HRS)	*	41.1		*	68.2		*	118.3		*	213.3		*	392.2		*
ST. DEV(HRS)	*	69.1		*	132.0		*	263.9		*	555.2		*	885.1		*

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