

Results of a survey on the effect of CPC on each accident (Fisherman 1)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0		o			
			Inappropriate	1.9	o		o	o	o
2		Adequacy of training and experience	Adequate, high experience	-1.4	o	o			o
			Adequate, low experience	0			o		
			A little inadequate	1					
			Inadequate	1.8				o	
3		Crew collaboration quality	Very efficient	-1.4					
			Efficient	0	o	o	o		o
			Inefficient	0.4					
			Deficient	1.4				o	
4	Job condition	Availability of procedures / plans	Appropriate	-1.2					
			Acceptable	0	o	o	o	o	o
			Inappropriate	1.4					
5		Number of simultaneous goals	Fewer than capacity	0					
			Matching current capacity	0				o	
			More than capacity	1.2	o	o	o		o
6		Available time	Adequate	-1.4					
			Normal	0					
			Temporarily inadequate	1					
			Continuously inadequate	2.4	o	o	o	o	o
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

## Results of a survey on the effect of CPC on each accident (Fisherman 2)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0	o				
			Inappropriate	1.9		o	o	o	o
2		Adequacy of training and experience	Adequate, high experience	-1.4	o	o	o		
			Adequate, low experience	0				o	o
			A little inadequate	1					
			Inadequate	1.8					
3		Crew collaboration quality	Very efficient	-1.4					
			Efficient	0	o	o	o	o	o
			Inefficient	0.4					
			Deficient	1.4					
4	Job condition	Availability of procedures / plans	Appropriate	-1.2					
			Acceptable	0	o	o	o	o	o
			Inappropriate	1.4					
5		Number of simultaneous goals	Fewer than capacity	0					
			Matching current capacity	0					
			More than capacity	1.2	o	o	o	o	o
6		Available time	Adequate	-1.4					
			Normal	0					
			Temporarily inadequate	1					
			Continuously inadequate	2.4	o	o	o	o	o
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

Results of a survey on the effect of CPC on each accident (Fisherman 3)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0	o	o	o	o	
			Inappropriate	1.9					o
2		Adequacy of training and experience	Adequate, high experience	-1.4	o	o	o	o	o
			Adequate, low experience	0					
			A little inadequate	1					
			Inadequate	1.8					
3		Crew collaboration quality	Very efficient	-1.4					
			Efficient	0	o	o	o	o	o
			Inefficient	0.4					
			Deficient	1.4					
4	Job condition	Availability of procedures / plans	Appropriate	-1.2					
			Acceptable	0	o	o	o	o	o
			Inappropriate	1.4					
5		Number of simultaneous goals	Fewer than capacity	0					
			Matching current capacity	0	o	o	o	o	o
			More than capacity	1.2					
6		Available time	Adequate	-1.4					
			Normal	0		o	o	o	o
			Temporarily inadequate	1	o				
			Continuously inadequate	2.4					
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

## Results of a survey on the effect of CPC on each accident (Fisherman 4)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0	o				
			Inappropriate	1.9		o	o	o	o
2		Adequacy of training and experience	Adequate, high experience	-1.4	o	o			
			Adequate, low experience	0					
			A little inadequate	1			o	o	
			Inadequate	1.8					o
3		Crew collaboration quality	Very efficient	-1.4	o				
			Efficient	0		o			
			Inefficient	0.4			o		o
			Deficient	1.4				o	
4	Job condition	Availability of procedures / plans	Appropriate	-1.2					
			Acceptable	0	o	o	o	o	o
			Inappropriate	1.4					
5		Number of simultaneous goals	Fewer than capacity	0					
			Matching current capacity	0	o				
			More than capacity	1.2		o	o	o	o
6		Available time	Adequate	-1.4					
			Normal	0					
			Temporarily inadequate	1	o	o	o		
			Continuously inadequate	2.4				o	o
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

## Results of a survey on the effect of CPC on each accident (Fisherman 5)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0					
			Inappropriate	1.9	o	o	o	o	o
2		Adequacy of training and experience	Adequate, high experience	-1.4	o	o			
			Adequate, low experience	0					
			A little inadequate	1					
			Inadequate	1.8			o	o	o
3		Crew collaboration quality	Very efficient	-1.4					
			Efficient	0					
			Inefficient	0.4	o			o	
			Deficient	1.4		o	o		o
4	Job condition	Availability of procedures / plans	Appropriate	-1.2	o				
			Acceptable	0		o	o		o
			Inappropriate	1.4				o	
5		Number of simultaneous goals	Fewer than capacity	0				o	
			Matching current capacity	0	o				
			More than capacity	1.2		o	o		o
6		Available time	Adequate	-1.4					
			Normal	0					
			Temporarily inadequate	1					
			Continuously inadequate	2.4	o	o	o	o	o
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

## Results of a survey on the effect of CPC on each accident (Fisherman 6)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0					
			Inappropriate	1.9	o	o	o	o	o
2		Adequacy of training and experience	Adequate, high experience	-1.4	o	o	o	o	o
			Adequate, low experience	0					
			A little inadequate	1					
			Inadequate	1.8					
3		Crew collaboration quality	Very efficient	-1.4					
			Efficient	0					
			Inefficient	0.4					
			Deficient	1.4	o	o	o	o	o
4	Job condition	Availability of procedures / plans	Appropriate	-1.2					
			Acceptable	0	o	o	o	o	o
			Inappropriate	1.4					
5		Number of simultaneous goals	Fewer than capacity	0					
			Matching current capacity	0					
			More than capacity	1.2	o	o	o	o	o
6		Available time	Adequate	-1.4					
			Normal	0					
			Temporarily inadequate	1					
			Continuously inadequate	2.4	o	o	o	o	o
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

## Results of a survey on the effect of CPC on each accident (Fisherman 7)

No.	Condition	CPC	Level	PII	Collision while sailing	Getting caught in equipment	Slipping on the deck	Falling inside the boat	Getting caught in fishing nets
1	Human reliability condition	Fatigue	Appropriate	-1.1					
			Acceptable	0	o				
			Inappropriate	1.9		o	o	o	o
2		Adequacy of training and experience	Adequate, high experience	-1.4					
			Adequate, low experience	0		o	o		
			A little inadequate	1				o	o
			Inadequate	1.8	o				
3		Crew collaboration quality	Very efficient	-1.4					
			Efficient	0	o	o			
			Inefficient	0.4			o	o	o
			Deficient	1.4					
4	Job condition	Availability of procedures / plans	Appropriate	-1.2					
			Acceptable	0	o		o		
			Inappropriate	1.4		o		o	o
5		Number of simultaneous goals	Fewer than capacity	0					
			Matching current capacity	0				o	o
			More than capacity	1.2	o	o	o		
6		Available time	Adequate	-1.4					
			Normal	0					
			Temporarily inadequate	1	o				o
			Continuously inadequate	2.4		o	o	o	
7	Dynamic condition	Technical condition	Advantageous	-0.8					
			Compatible	0					
			Incompatible	0.7					
8		Environmental condition	Advantageous	-1.1					
			Compatible	0					
			Incompatible	1.7					
9		Time of day (circadian rhythm)	Very efficient	0					
			Deficient	0.6					

# Effect of CPC on shipboard operations based on the fisherman's career

(The higher the score, the more negative it is.)

	Career	30	20	30	40	52	50	41
No.	CPCs	Fisherman 1	Fisherman 2	Fisherman 3	Fisherman 4	Fisherman 5	Fisherman 6	Fisherman 7
1	Fatigue	20	100	20	80	100	100	100
2	Adequacy of training and experience	80	10	50	100	10	100	50
3	Crew collaboration quality	90	100	80	50	80	10	80
4	Availability of procedures / plans	30	50	20	50	80	50	50
5	Number of simultaneous goals	70	50	20	40	100	50	50
6	Available time	60	70	20	40	100	50	90
7	Technical condition	10	20	20	90	10	10	80
8	Environmental condition	100	40	80	40	100	10	100
9	Time of day (circadian rhythm)	50	50	50	30	70	50	80