

Fatigue from regulator perspective

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*«before we feared an accident could happen,
now we are waiting for it»*

Rumros and saying

- direct contact NAA inspectors and managers
- labor unions
- media

Aeromedical examiners

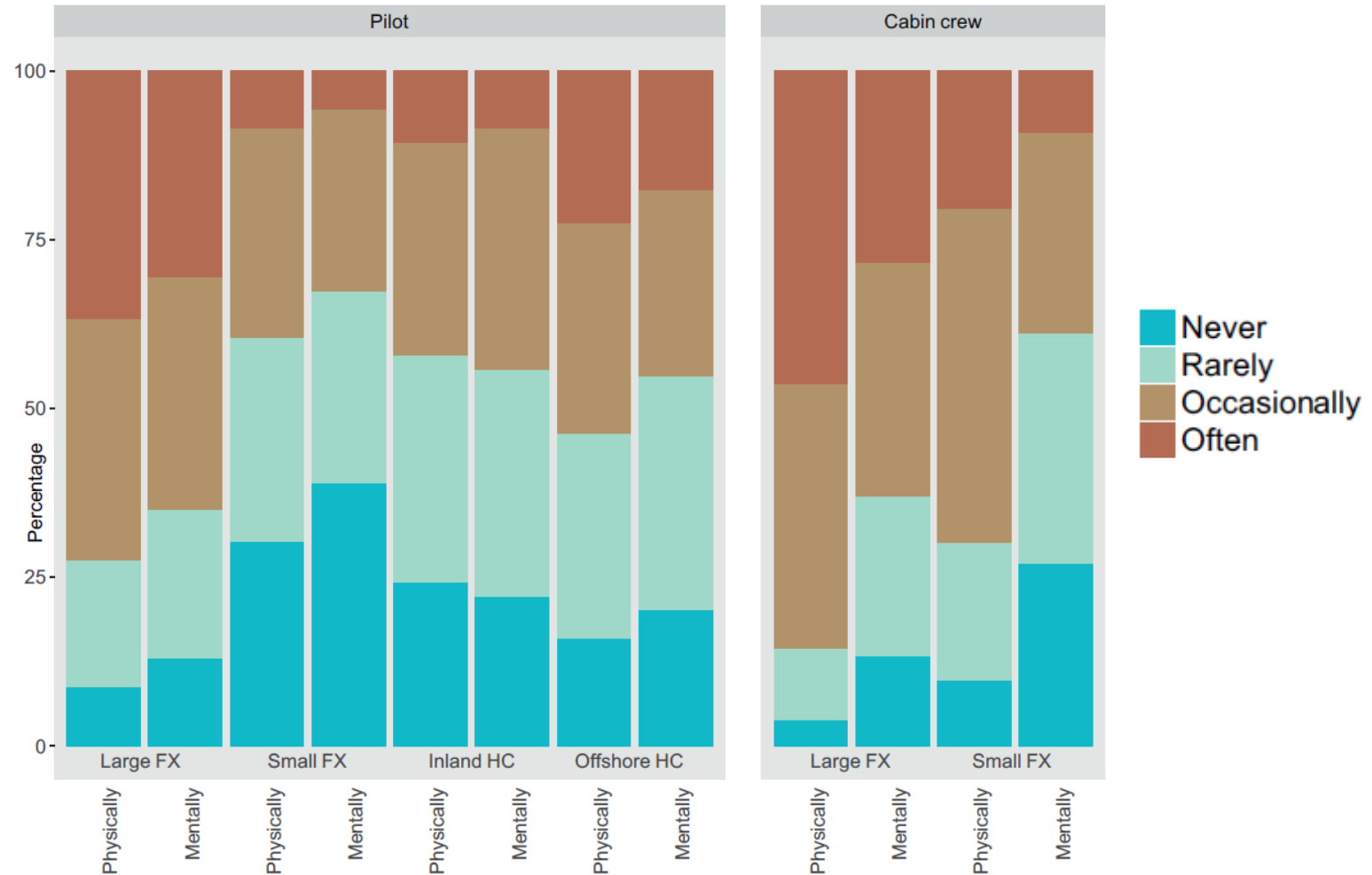
Mandatory reporting

Surveys (ECA; CAA, other reports)

Inspections

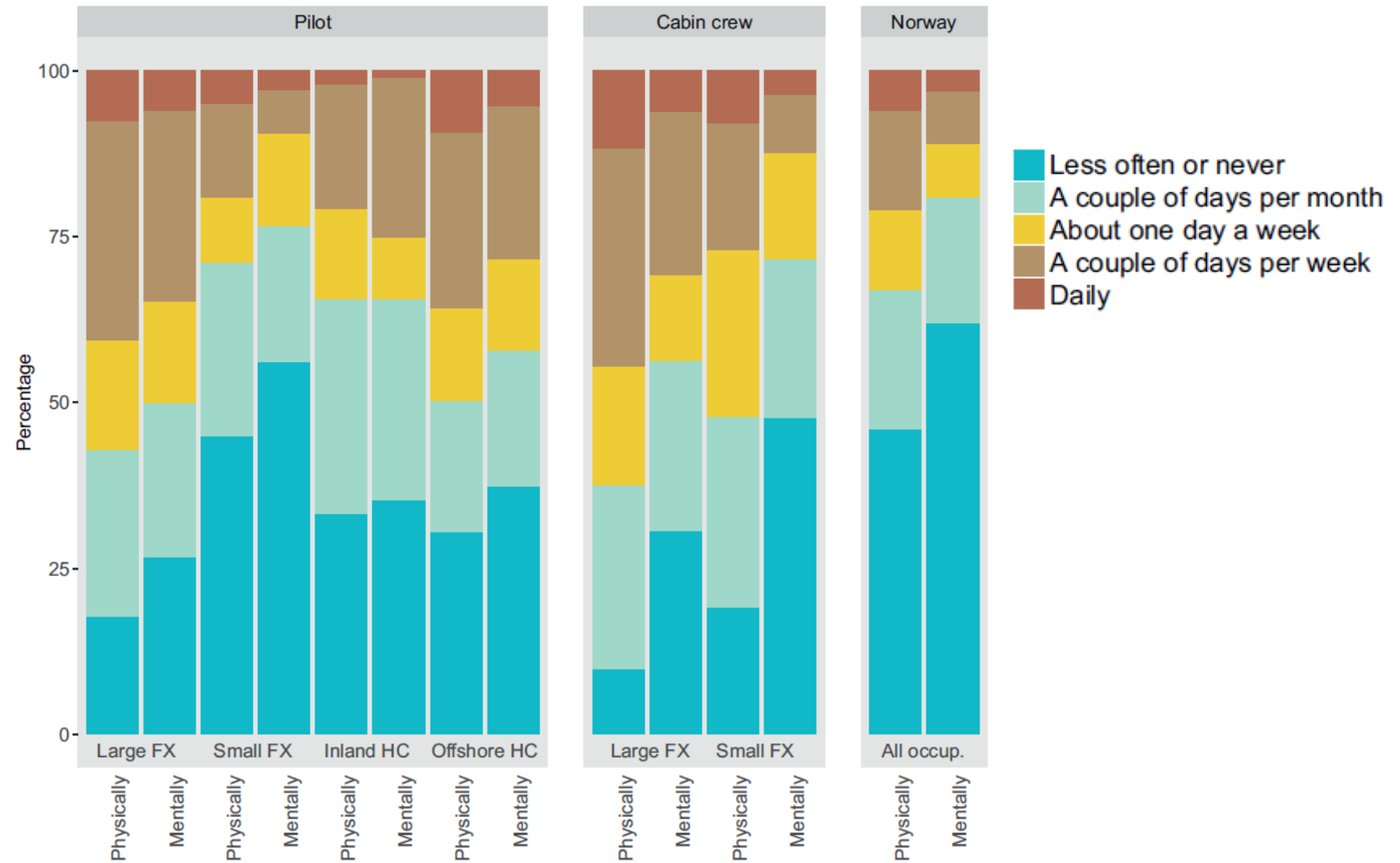
Is it true to say that you feel physically or mentally exhausted after **ending your duty period?**

NATIONWIDE SURVEY OF THE WORK
ENVIRONMENT AMONG CREW MEMBERS
IN NORWAY



Is it true to say that you feel physically or mentally exhausted after **finishing a working day?**

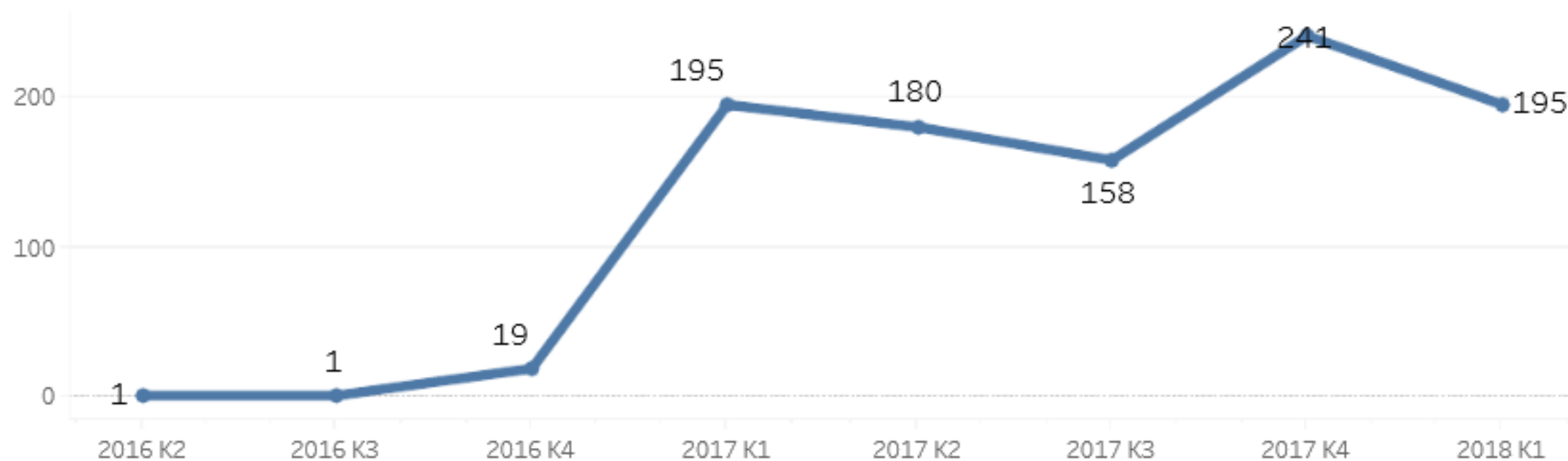
NATIONWIDE SURVEY OF THE WORK ENVIRONMENT AMONG CREW MEMBERS IN NORWAY



Response distribution for experiencing adequate rest and relaxation between working days, excluding sleep.

	Large FX		Small FX		Inland HC	Offshore HC	Norway
	Pilot	Cabin Crew	Pilot	Cabin Crew	Pilot	Pilot	All occupations
Less often or never	10	15	1	5	3	2	8
A couple of times a month	20	24	5	24	5	2	4
About once a week	37	36	11	40	26	25	5
A couple of days per week	15	12	7	18	6	5	13
Daily	19	12	75	13	59	66	71

Number of fatigue reports – Norway (all sectors included)



K = quarter

Fatigue and State Safety Program

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SMS (Safety Management System) & SSP (State Safety Programme)

SMS

1. Safety policy and objectives
2. Safety risk management
3. Safety assurance
4. Safety promotion

SSP

1. Safety policy and objectives
2. Safety risk management
3. Safety assurance
4. Safety promotion



CAA-Norway

Fatigue campaign



● Safety promotion

● **Focused inspections**

● Surveys

● Mandatory reporting

● Indicators

● Research

ORO.FTL.110 Operator responsibilities

An operator shall:

- (a) publish duty rosters sufficiently in advance to provide the opportunity for crew members to plan adequate rest;
- (b) ensure that flight duty periods are planned in a way that enables crew members to remain sufficiently free from fatigue so that they can operate to a satisfactory level of safety under all circumstances;

CAA-Norway

Fatigue campaign



Measuring the effects of human performance on safety, environmental and economic outputs using Flight Data Monitoring (HumP-FDM)

