



1
00:00:30,070 --> 00:00:27,509
the rescue coordination center

2
00:00:31,429 --> 00:00:30,080
started receiving distress signals the

3
00:00:32,310 --> 00:00:31,439
bridge was starting to fill up with

4
00:00:35,750 --> 00:00:32,320
water

5
00:00:38,069 --> 00:00:35,760
the ship was sinking and got them out

6
00:00:41,990 --> 00:00:38,079
on top of the rescue boat

7
00:00:44,470 --> 00:00:42,000
winds up to 60 70 knots we started to

8
00:00:47,830 --> 00:00:44,480
separate one by one

9
00:00:50,150 --> 00:00:47,840
wave height 50 to 60 feet

10
00:00:52,310 --> 00:00:50,160
i was finally i was alone and no rescue

11
00:00:53,189 --> 00:00:52,320
boat or nothing the rescue boat drifted

12
00:00:55,189 --> 00:00:53,199
away

13
00:00:56,950 --> 00:00:55,199

it's freezing out there

14

00:00:58,630 --> 00:00:56,960

all i had to do was just

15

00:01:01,349 --> 00:00:58,640

waiting hope

16

00:01:04,549 --> 00:01:01,359

some kind of miracle would happen

17

00:01:23,270 --> 00:01:04,559

there is almost no chance to survive

18

00:01:27,350 --> 00:01:24,630

ais

19

00:01:29,830 --> 00:01:27,360

the automatic identification system

20

00:01:33,190 --> 00:01:29,840

all ships out on the open oceans

21

00:01:35,510 --> 00:01:33,200

are obliged to transmit their position

22

00:01:38,630 --> 00:01:35,520

and their identity and their

23

00:01:41,190 --> 00:01:38,640

directional speed heading and speed etc

24

00:01:42,710 --> 00:01:41,200

it's kind of like air traffic control

25

00:01:44,230 --> 00:01:42,720

for the sea

26

00:01:46,310 --> 00:01:44,240

it's very useful to

27

00:01:47,590 --> 00:01:46,320

help provide assistance to ships in

28

00:01:51,350 --> 00:01:47,600

distress

29

00:01:52,870 --> 00:01:51,360

first of all to see do we have assets

30

00:01:56,149 --> 00:01:52,880

in the area

31

00:01:59,429 --> 00:01:56,159

that could help somebody in distress

32

00:02:01,990 --> 00:01:59,439

in in the days before ais

33

00:02:04,950 --> 00:02:02,000

we didn't even know if there were any

34

00:02:06,389 --> 00:02:04,960

vessels in a particular area where we

35

00:02:09,510 --> 00:02:06,399

have an incident

36

00:02:12,550 --> 00:02:09,520

they were more or less invisible to

37

00:02:15,350 --> 00:02:12,560

the coastal traffic administration

38

00:02:17,670 --> 00:02:15,360

but as of today if we have an incident

39

00:02:19,589 --> 00:02:17,680

out in open water

40

00:02:22,390 --> 00:02:19,599

we have the chance to see what vessels

41

00:02:25,830 --> 00:02:22,400

are in the area and could contact them

42

00:02:28,229 --> 00:02:25,840

directly to route them to the

43

00:02:31,430 --> 00:02:28,239

position or the distress

44

00:02:32,390 --> 00:02:31,440

and in in that way in a more effective

45

00:02:35,350 --> 00:02:32,400

way

46

00:02:38,229 --> 00:02:35,360

rescue more people within a shorter time

47

00:02:41,509 --> 00:02:38,239

frame that we ever have before

48

00:02:43,910 --> 00:02:41,519

ais receiving stations along the coast

49

00:02:46,070 --> 00:02:43,920

they can only look a certain distance

50

00:02:49,270 --> 00:02:46,080

out into the sea ships that go out

51
00:02:51,350 --> 00:02:49,280
beyond 75 kilometers outside the coast

52
00:02:53,430 --> 00:02:51,360
were over the horizon and invisible to

53
00:02:55,430 --> 00:02:53,440
us but if you think about these signals

54
00:02:58,390 --> 00:02:55,440
going straight they go maybe several

55
00:02:59,830 --> 00:02:58,400
hundred kilometers out into space

56
00:03:03,990 --> 00:02:59,840
and you know what circles around the

57
00:03:06,390 --> 00:03:04,000
earth about 400 kilometers above us

58
00:03:09,430 --> 00:03:06,400
international space station

59
00:03:12,309 --> 00:03:09,440
the european space agency contacted the

60
00:03:14,790 --> 00:03:12,319
norwegian defense research establishment

61
00:03:17,270 --> 00:03:14,800
and gave them the opportunity to mount

62
00:03:20,149 --> 00:03:17,280
an ais receiver on board the space

63
00:03:22,949 --> 00:03:20,159

station to test out this technology from

64

00:03:24,710 --> 00:03:22,959

space all our calculations indicated

65

00:03:26,949 --> 00:03:24,720

that this should work

66

00:03:28,949 --> 00:03:26,959

but we really did not know before we

67

00:03:30,390 --> 00:03:28,959

switched on the receiver on the space

68

00:03:33,990 --> 00:03:30,400

station

69

00:03:34,949 --> 00:03:34,000

first of june 2010 the system was turned

70

00:03:37,110 --> 00:03:34,959

on

71

00:03:39,509 --> 00:03:37,120

the switch was flipped and

72

00:03:41,670 --> 00:03:39,519

the light came on and we were actually

73

00:03:44,470 --> 00:03:41,680

able to get the first data in yes the

74

00:03:46,789 --> 00:03:44,480

instrument works we all got very excited

75

00:03:49,030 --> 00:03:46,799

and and suddenly we could see

76

00:03:51,270 --> 00:03:49,040

a whole world full of ship data it was

77

00:03:54,070 --> 00:03:51,280

it was i would say a quantum leap really

78

00:03:56,789 --> 00:03:54,080

in our ability to to look at global ship

79

00:03:58,309 --> 00:03:56,799

traffic it's like a blind man starting

80

00:04:00,550 --> 00:03:58,319

to see

81

00:04:02,070 --> 00:04:00,560

yeah it was a huge relief and great

82

00:04:04,470 --> 00:04:02,080

satisfaction to see

83

00:04:06,390 --> 00:04:04,480

so this brought a whole new dimension to

84

00:04:07,990 --> 00:04:06,400

the monitoring of ship traffic on the

85

00:04:10,229 --> 00:04:08,000

open oceans

86

00:04:12,550 --> 00:04:10,239

nobody knew how many ships really are

87

00:04:14,710 --> 00:04:12,560

out there at any given time and

88

00:04:17,030 --> 00:04:14,720

suddenly we had if not the complete

89

00:04:19,509 --> 00:04:17,040

picture than almost a complete picture

90

00:04:23,350 --> 00:04:19,519

on a typical day the space station is

91

00:04:24,550 --> 00:04:23,360

observing about 30 000 ships out on the

92

00:04:26,150 --> 00:04:24,560

open ocean

93

00:04:27,590 --> 00:04:26,160

i was kind of overwhelmed i guess by the

94

00:04:29,990 --> 00:04:27,600

response that's got the space station

95

00:04:32,469 --> 00:04:30,000

really is an excellent lab for

96

00:04:34,629 --> 00:04:32,479

testing this type of technology

97

00:04:37,270 --> 00:04:34,639

this project demonstrates that the

98

00:04:39,909 --> 00:04:37,280

international space station is not just

99

00:04:43,189 --> 00:04:39,919

for science and astronauts

100

00:04:51,350 --> 00:04:43,199

but it really benefits the whole mankind

101
00:04:54,870 --> 00:04:53,430
based on the ais

102
00:04:57,909 --> 00:04:54,880
we had another

103
00:05:00,710 --> 00:04:57,919
vessels in the area that we contacted

104
00:05:03,430 --> 00:05:00,720
who continued to the area and they

105
00:05:07,270 --> 00:05:03,440
searched together with the helicopters

106
00:05:09,590 --> 00:05:07,280
nobody expected to find anybody

107
00:05:13,350 --> 00:05:09,600
surviving in that conditions they

108
00:05:14,950 --> 00:05:13,360
actually spotted one man in the sea

109
00:05:17,029 --> 00:05:14,960
after floating in the north atlantic

110
00:05:19,749 --> 00:05:17,039
ocean for four hours

111
00:05:23,350 --> 00:05:19,759
i was finally rescued thanks to

112
00:05:27,430 --> 00:05:23,360
ais data and ais data from the space

113
00:05:28,710 --> 00:05:27,440

station this lone survivor was rescued a

114

00:05:30,950 --> 00:05:28,720

absolutely

115

00:05:33,189 --> 00:05:30,960

happy ending for him

116

00:05:34,550 --> 00:05:33,199

and luckily for technology that made

117

00:05:35,590 --> 00:05:34,560

something that was basically impossible

118

00:06:12,469 --> 00:05:35,600

to survive