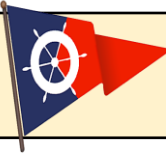


QUARTERMASTER YACHT CLUB – VHF Radio Use Tech Talk

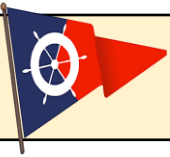
Marine VHF Radio Use – Project Data

Title:	Marine VHF radio use
Objective:	Discuss both recreational boating and safety uses of the VHF radio
Speaker(s):	Bob Underwood
QYC Only?:	No
Date:	7 Dec, 2016
Time:	7 – 9 PM
Duration:	90 minutes
Location:	Vashon Library (Meyers Hut as backup)
Space Required:	Room with tables, chairs and projection screen
Supplies to bring:	Laptop and power cable, projector and power cable, laptop to projector cable
Tools to bring:	None
Props & Examples:	None
Advertising plan:	Advertise tech talk w/ flyer at QMM, library, grocery store, HW store, Burton Boat, QYC (Meyers Hut, top of hill bulletin board, dock gate), preview at QYC meeting



VHF Radio Use – Agenda

- 7:00 Welcome / Overview / Introduce experts
- 7:15 Capabilities and Features
- 7:40 Radio Use
- 8:00 Regulations
- 8:05 Practice
- 8:30 Questions?
- 8:45 Complete surveys / Review boating risks on white board / Handouts
- 8:50 Start teardown
- 9:00 Depart



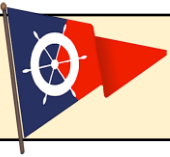
QUARTERMASTER YACHT CLUB – Tech Talk Introduction

WELCOME to QYC Tech Talks!

- A Tech Talk is...
 - An exchange of information, ideas and experience
 - More dialogue than “teaching”
 - A little structure
- We encourage...
 - Listening, learning & contributing
 - Discussion and debate
 - Questions
- Our next Tech Talk is:
 - 11 Jan at 7PM – Anchoring Techniques



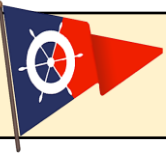
Together, to Learn From Each Other



QUARTERMASTER YACHT CLUB – Tech Talk Introduction

WELCOME to QYC Tech Talks!

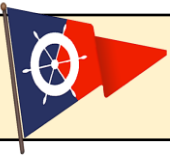
- But First...
 - <http://threesheetsnw.com/blog/2016/12/how-not-to-cross-a-washington-state-ferry-video/>



Marine VHF Radio Use - Overview

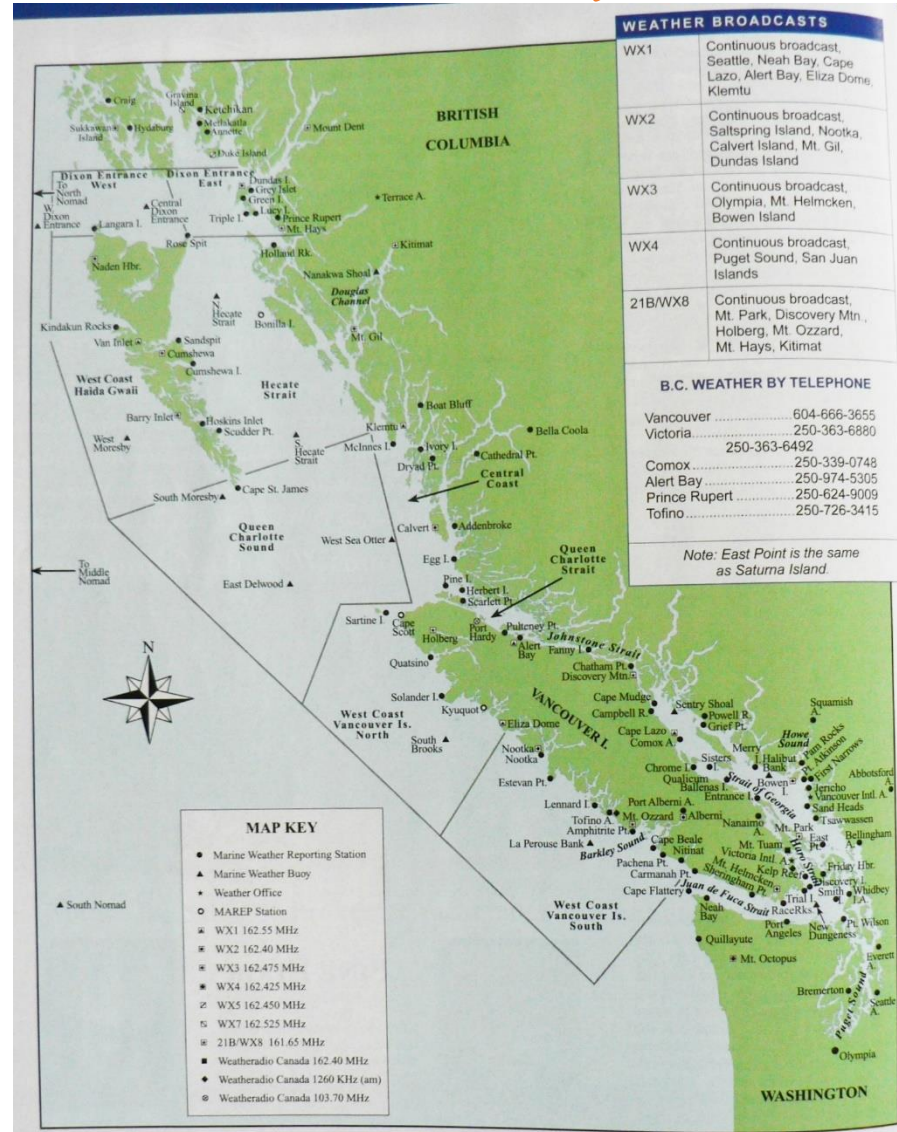
- Capabilities
- Features
- Use
- Testing
- Practice

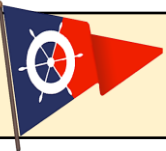




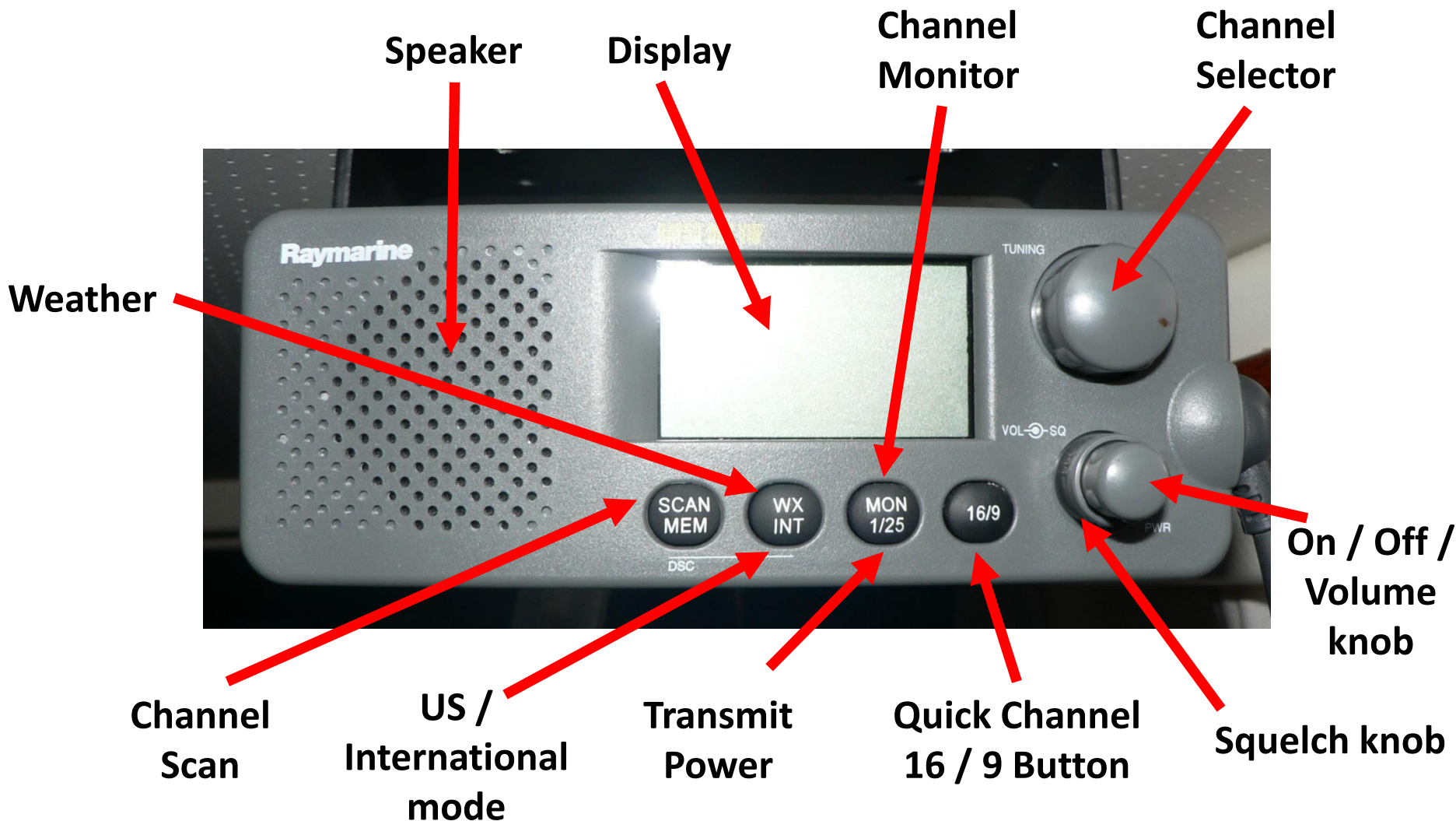
Marine VHF Radio Use - Capabilities

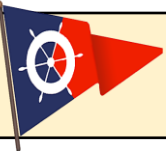
- Hailing
- Weather
- Distress





Marine VHF Radio Use - Features



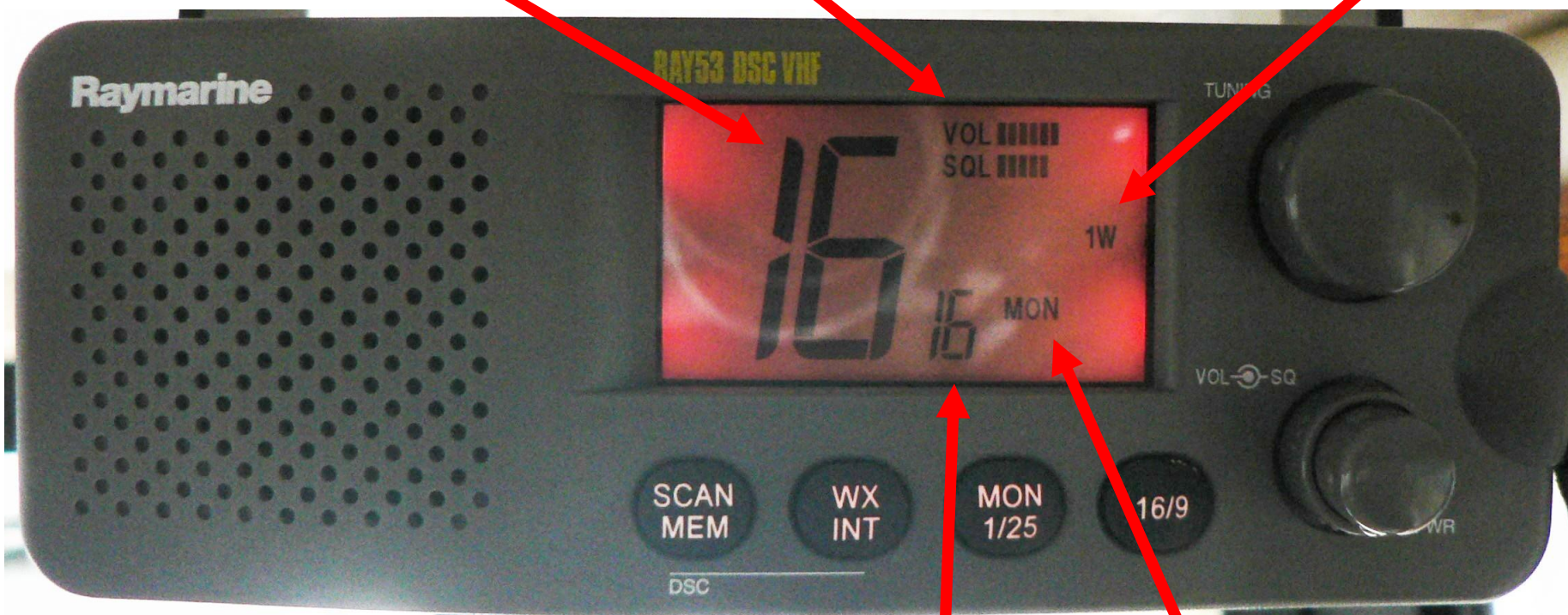


Marine VHF Radio Use - Features

Channel 16 selected

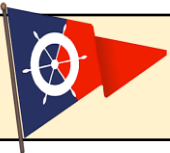
Volume & Squelch Setting

1 Watt Transmit Power selected



Monitored channel display

Monitor mode selected

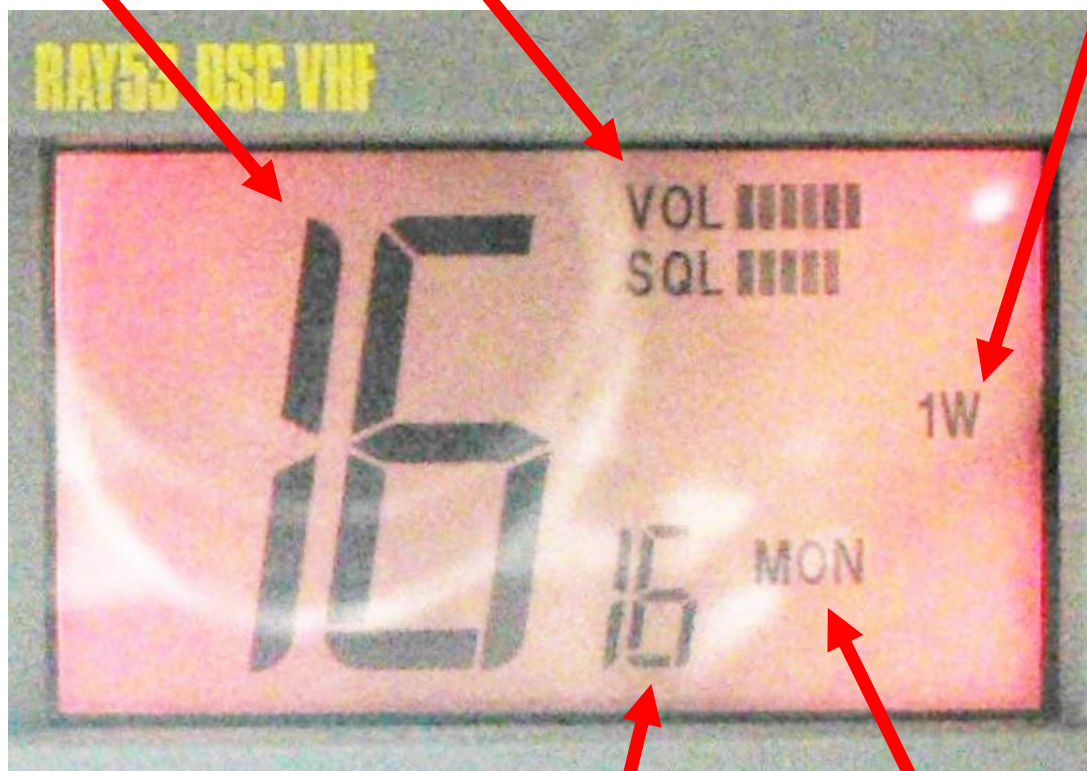


Marine VHF Radio Use - Features

**Channel 16
selected**

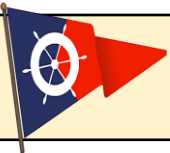
**Volume &
Squelch Settings**

**1 Watt Transmit
Power selected**



**Monitored
channel display**

**Monitor mode
selected**



Marine VHF Radio Use - Features

**Push
to
Talk**

Microphone

Speaker

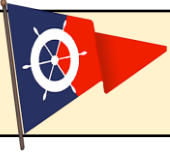
**Channel
Selector**

**Digital Selective Calling
Emergency Transmit Button**



**Quick Channel
16 / 9 Button**



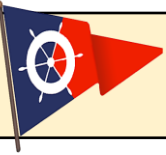


Marine VHF Radio Use - General

- Hailing other vessels
 - Channel 16 – Hailing and Distress
 - Channel 13 – Bridge to Bridge (ferry boats)
 - Channel 14 – Seattle Traffic

- Hailing Protocol

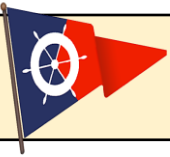
- Coast Guard notifications



QUARTERMASTER YACHT CLUB – VHF Radio Use Tech Talk

Marine VHF Radio Use - Channels

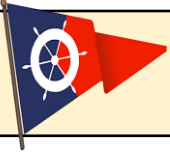
[Link to VHF Radio channel guide](#)



QUARTERMASTER YACHT CLUB – VHF Radio Use Tech Talk

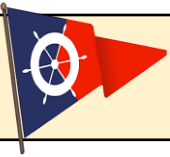
Marine VHF Radio Use – Weather

WEATHER BROADCASTS	
WX1	Continuous broadcast, Seattle, Neah Bay, Cape Lazo, Alert Bay, Eliza Dome, Klemtu
WX2	Continuous broadcast, Saltspring Island, Nootka, Calvert Island, Mt. Gil, Dundas Island
WX3	Continuous broadcast, Olympia, Mt. Helmcken, Bowen Island
WX4	Continuous broadcast, Puget Sound, San Juan Islands
21B/WX8	Continuous broadcast, Mt. Park, Discovery Mtn., Holberg, Mt. Ozzard, Mt. Hays, Kitimat



Marine VHF Radio Use – Distress Calls

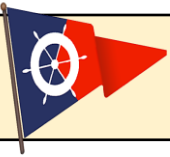
- Securite: General information
- Pan-Pan: Immediate assistance required
- Mayday: Life threatening
- Digital Selective Calling (DSC)
 - Maritime Mobile Service Identity (MMSI) #
 - Ship to Ship
 - Distress (Panic Button)



Marine VHF Radio Use – Distress Calls

- Pre-Emptive – heard on the VHF radio
 - Pan-Pan, Pan-Pan, Pan-Pan
 - 38 ft sailing vessel “Orion”, blue hull, white deck
 - Taking on water, bilge pumps keeping up
 - Current location S of Sutil Pt on Cortez Island
 - Heading for Lund via Baker Passage
 - ETA 1430, 90 minutes from now
 - Single male on board, no injury, wearing PFD

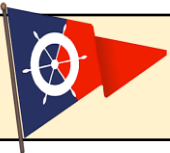
Coast guard called back every 30 min to monitor progress / change of status



Marine VHF Radio Use – Distress Calls

- Location
- Situation
- Specific help needed
- Urgency
- How can you be reached?
- Number of people hurt /
number of people not hurt
- Your plan
 - Where are you planning to go from your current location?
 - Your ETA
- How can you be identified?
 - Boat length
 - Name, Type, Color
 - Distinguishing features

Coast guard will prompt you for any additional info they need

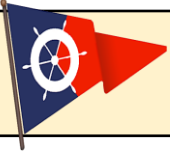


Marine VHF Radio Use – Helpful Info

Letter	1957-Present
A	Alfa (or Alpha)
B	Bravo
C	Charlie
D	Delta
E	Echo
F	Foxtrot
G	Golf
H	Hotel
I	India

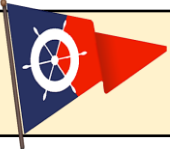
Letter	1957-Present
J	Juliett
K	Kilo
L	Lima
M	Mike
N	November
O	Oscar
P	Papa
Q	Quebec
R	Romeo

Letter	1957-Present
S	Sierra
T	Tango
U	Uniform
V	Victor
W	Whiskey
X	X-ray
Y	Yankee
Z	Zulu



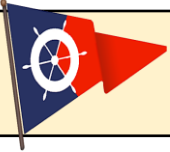
Marine VHF Radio Use – Testing

- SeaTow automated radio check service
 - <https://www.seatow.com/service-locator/arc?location=Vashon%2C+WA&distance=200>
 - Vashon at QYC: Channel 28
 - Port Ludlow: Channel 28
 - Call on channel 28, listen for playback
- Weather channels
- Call a friend



Marine VHF Radio Use – Regulations...

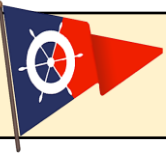
- Station License, if over 65 feet
 - www.fcc.gov or 1-888-255-5322, option 2
- Restricted Radio Operator Permit (outside US)
 - Schedule E of FCC Form 605 to apply
 - Form 159 to remit payment
- MMSI Numbers
 - Boat US (US travel)
 - FCC (international travel)



Marine VHF Radio Use – Practice

- Each person given a “scenario”
- Each person initiates or responds to a VHF call based on their scenario

Recommend: Listen to the experts on Channel 14



QUARTERMASTER YACHT CLUB – VHF Radio Use Tech Talk

Marine VHF Radio Use

QUESTIONS?