

Ditching in Light Aircraft

What we will Cover:

- Before Flight
- The Emergency
- The Ditching
- Egress the Escape
- Survival
- Questions/ Discussion

Before Flight

- Mind Set
 - Be prepared, dress appropriately, think about what might happen, and have your Plans A and B set with a possible C in the background
- Loading the Aircraft
 - Its going to be a very sudden stop, so if its not tied down it will be in the cockpit with you.
- <u>Life Jackets</u>
 - The majority of fatalities for MFIT accidents occurred during ditching. All of these fatalities were as a result of drowning after the accident, not as a direct result of the impact forces. None of the persons who drowned were wearing lifejackets. Those involved in these accidents who were wearing lifejackets survived. 2005 Report to CAA on NZ Fixed Wing Aviation Accidents
- Survival Gear Dinghy
 - If you can't access it immediately after the ditching, plan on not using it.
- Harness system Four point is best
- Briefing Your passenger may save you, so brief accordingly.

The Emergency

- Common Causes Fuel Starvation & Engine Icing
 - Ditch before the fuel runs out
 - Carb Heat ON for fluctuating RPM or boost
- Fly the Aircraft
 - Best glide or normal powered approach
- Radio Call/IFF
 - Mayday or Pan at least. IFF to Emergency.
- Brief your Passenger
 - Brace, Brace
- Configuration
 - Gear
 - Flaps
 - Doors
 - Master Switch

IFF Track

PLOT 1047 AIRCAT RADAR DATA PLOT

Designer DAR AIRCRAFT CRASH

Ploged: 21/11/99 06:40:38

O ACNZ 1889

Selection Criteria:

Picture Center: 4310S17250E

Picture range: 5 NM

Time period :

from : 21/11/89 04:00:00 - to : 21/11/89 04:10:00 0 0 0

Selected SSR codes

1200

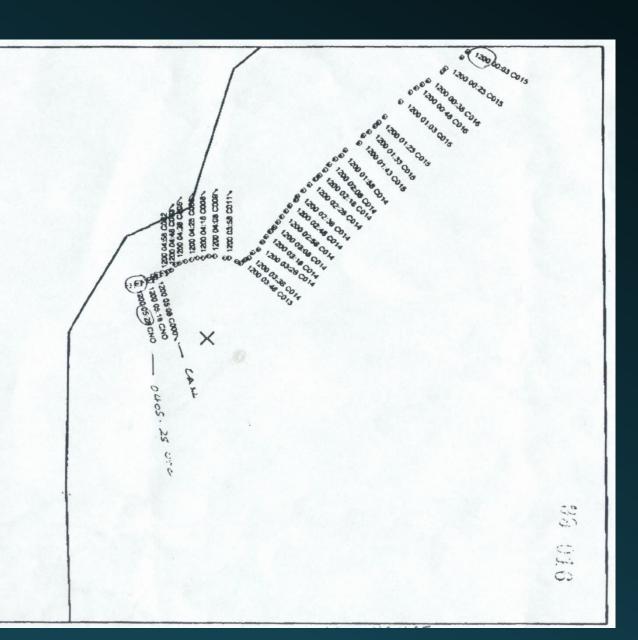
Selecting Multi Rader Tracks

Selected General Maps

57

Selected Restricted Maps

SCALE 1: 102,944 0 1 NM 10m = 0.655 NM

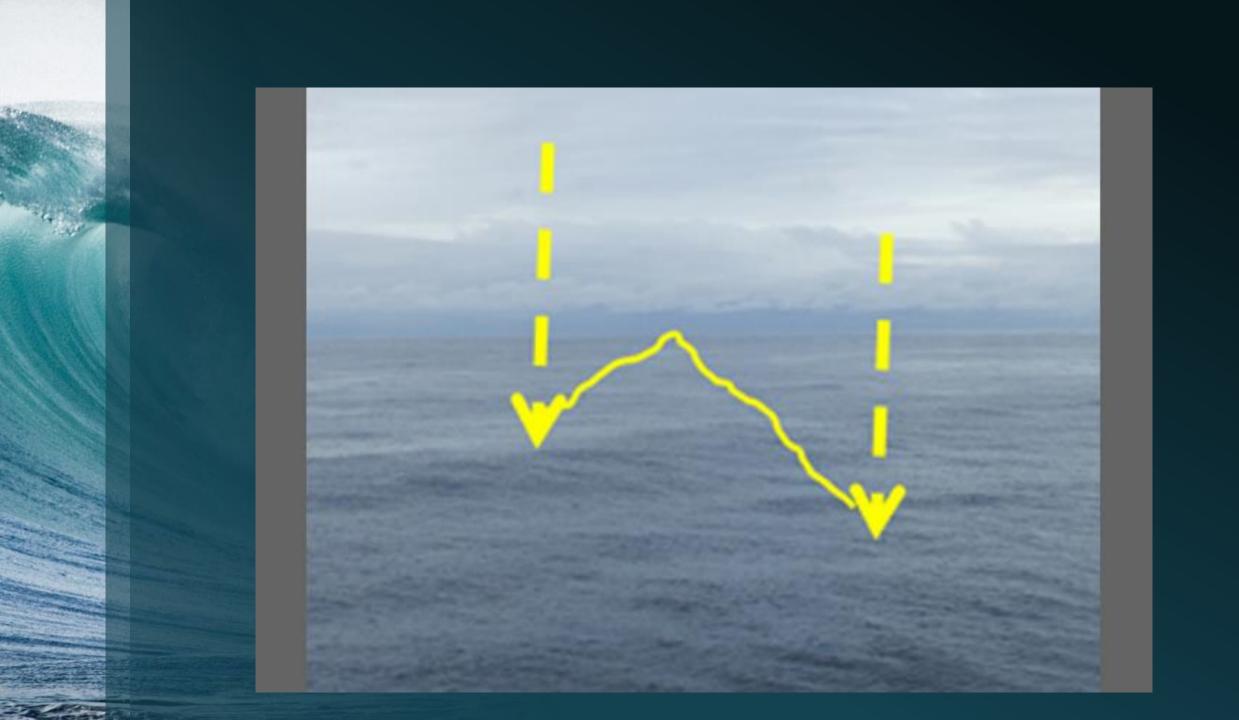


The Ditching

- Assessment of Conditions
 - Altitude will/may determine time to do this. Don't dither, make a decision and go with it.
- Wind
 - Assessing speed and direction
- Chop –
- <u>Swell</u> General rules are:
 - Land parallel to the primary swell best
 - Land parallel and on the back side of a swell second best
 - Land parallel and on the front side of the crest bad
 - Land into the swell face worst
 - If you have to ditch into wind try for just past a crest on the back side of the swell but get in the water before the next face arrives!







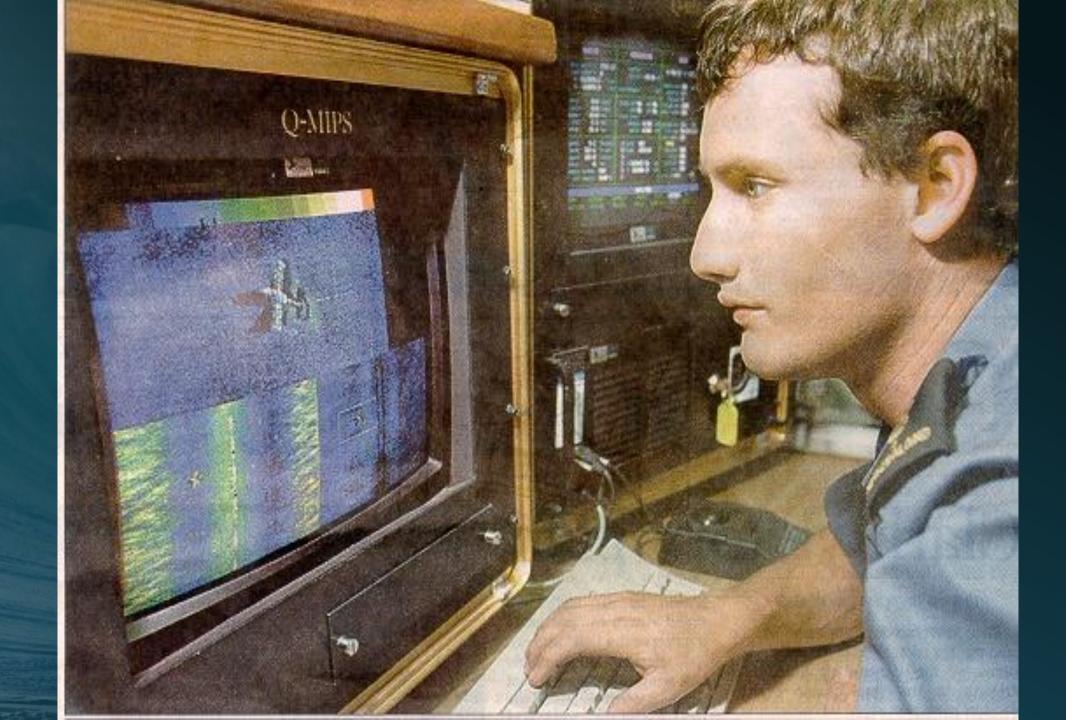




The Ditching continued

- Touchdown
 - Minimum rate of descent, may skip
 - Major deceleration when main gear digs in
 - Random control/throttle movement
 - Turnover
 - Cold water immersion

THE BOTTOM LINE – YOU HAVE A BETTER THAN 85% CHANCE OF SURVIVING THE DITCHING!







The Egress – getting out of there!

- The Door -
 - Crack open
 - If you have to break out a window, could you?
- Your Passenger
 - Help them out
 - Stay near aircraft
 - Link up
- The Dinghy -
 - One hand release
 - DO NOT inflate in the aircraft!
- Hazards -
 - Sea water ingestion
 - Fuel ingestion
 - Fire
 - Jagged metal

Survival

- You're out!
 - Inflate life jacket
 - Get passenger
 - Get dinghy inflate
 - Get in
 - Turn on beacon
 - Brew tea and await rescue

