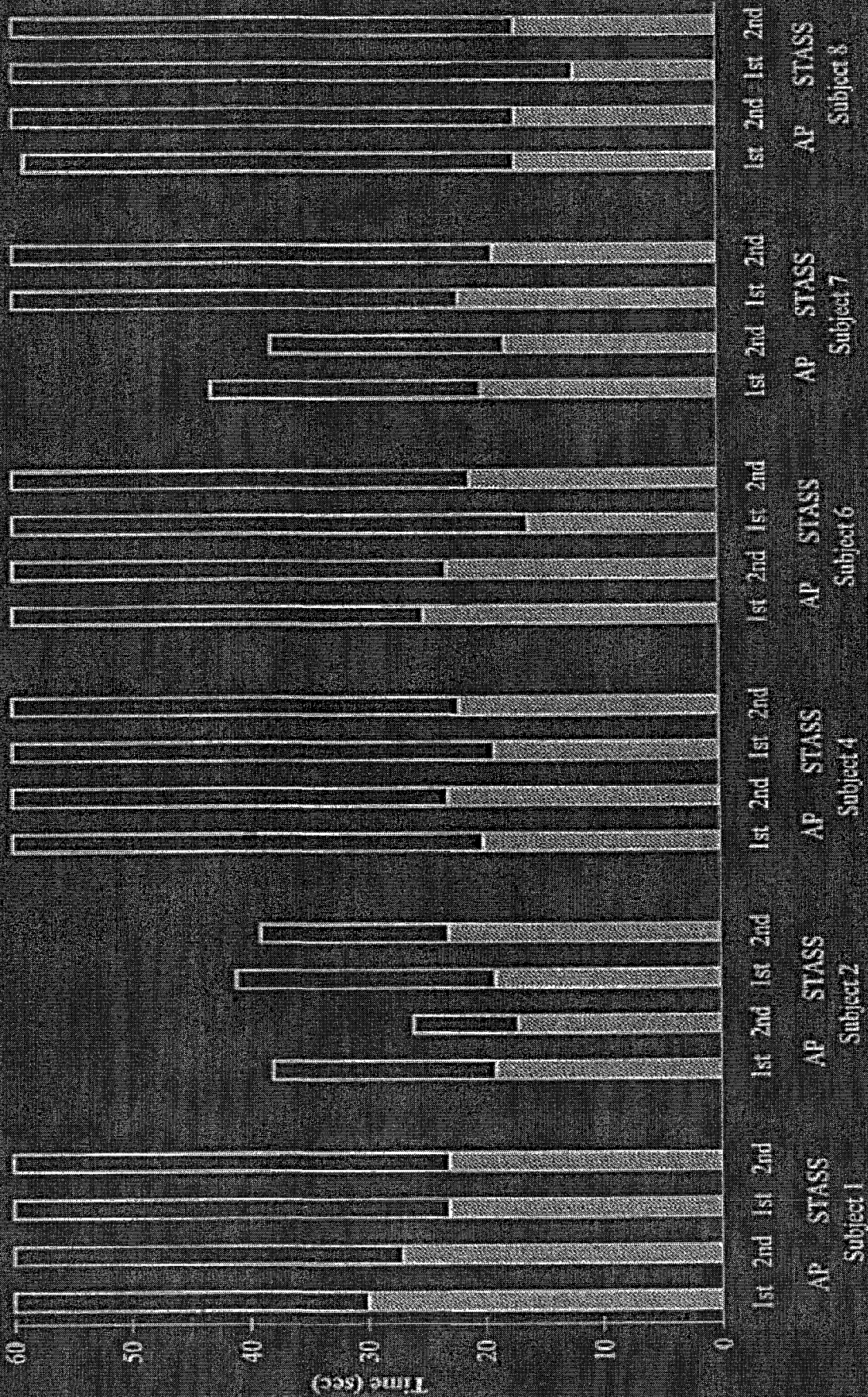
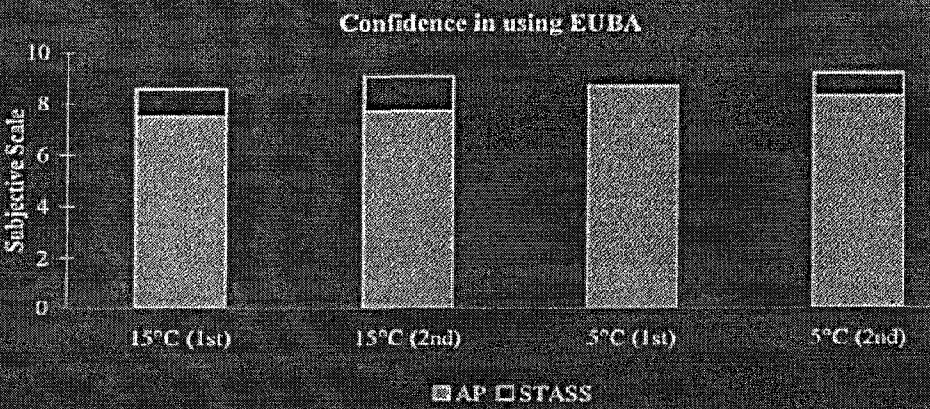
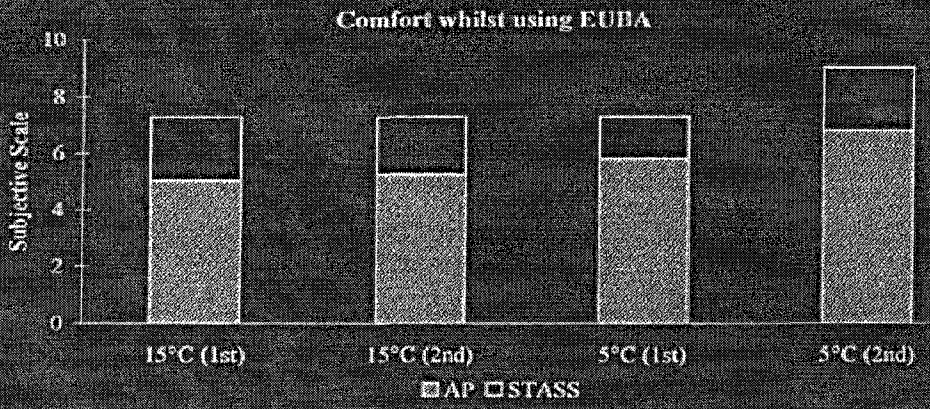
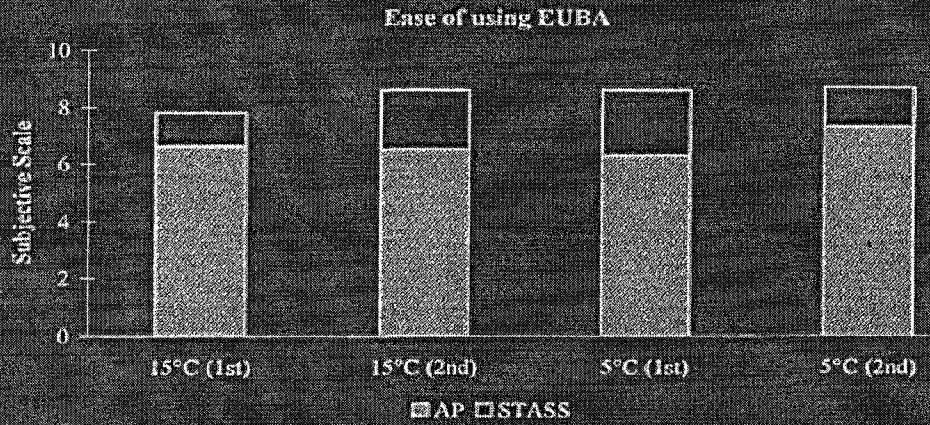


Maximum breath hold time and total time spent submerged using each EUBA during escapes (2 per device) in water at 5°C.



■ BHT max □ Total Time



Average and minimum oxygen partial pressures in the Air Pocket at the end of the runs in 5°C were:

Ave: 9.8kPa (73.5mmHg)

Min: 4.9kPa (36.8mmHg)

Min acceptable value: 4kPa

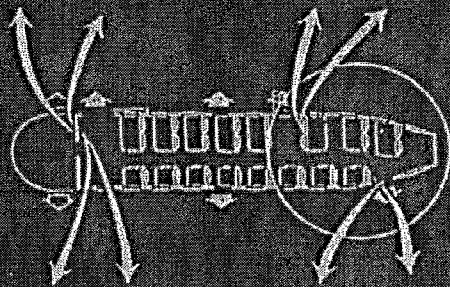
Average and maximum carbon dioxide partial pressures in the Air Pocket at the end of the runs in 5°C were:

Ave: 6.25kPa (46.9mmHg)

Min: 7.4kPa (55.5mmHg)

Maximum acceptable value 8kPa

FROM S-61 BOARDING CARD



LIFERAFT ENCASEMENT

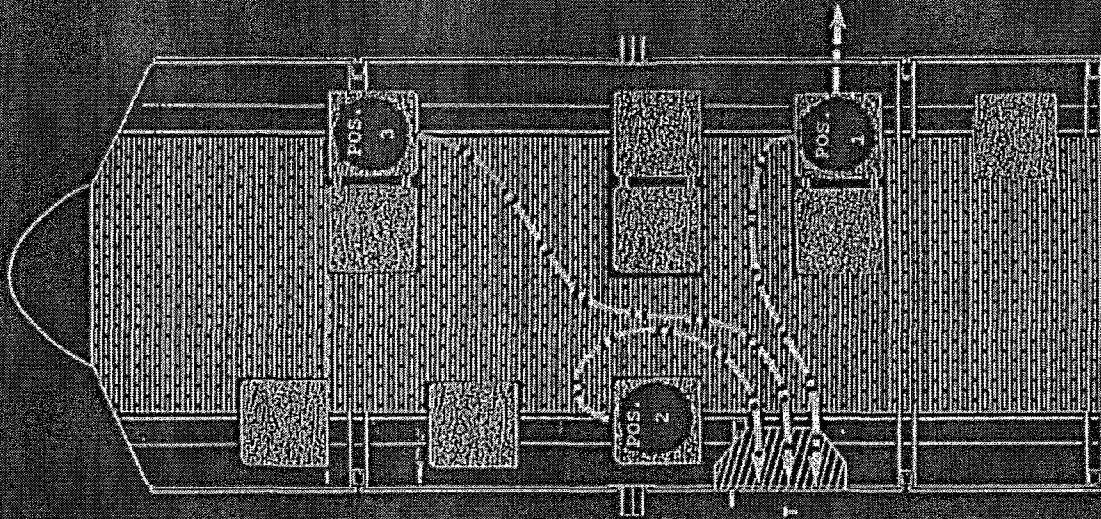


FIGURE 3. THE S-61 NETS CONFIGURATION WITH STARTING POSITIONS 1, 2 & 3 MARKED.

(From Bohemier et al., 1991)

In our trials in Canada, 33% of naïve subjects had to use EBS (AP) to effect a successful escape

Other issues:

Deploy prior to ditching?

BHmax before use?

Time to escape longer?

Rebreather

- Pros
 - No risk of POA
 - Simple to use
 - Simple to train with
 - Easy to maintain
- Cons
 - Limited duration
 - Limited depth

Compressed Air

- Pros
 - May give longer duration than a rebreather
 - Can end with a breath hold
- Cons
 - Risk of POA
 - Regarded by many authorities as diving kit
 - Limited duration
 - Limited Depth

UK Military: Yeovilton

First Aid trained personnel who have undertaken a barotrauma course are poolside

Medical Centre in the establishment with qualified medics

Local Hospital

UK Military: Yeovilton

- 8,000 trained per annum; 3,000 do STASS training
- Jan 2001-Jan 2006 65 incidents in the dunker
 - 34 referred to medical centre
 - 7 cases when STASS was used (may not have been caused by STASS)
 - Most serious case: spontaneous pneumothorax in 2004
 - Previous most serious, arterial gas embolism (Benton et al, 1996) ascent from 1m
 - Sinus symptoms common after training, Pilots write themselves off the flying rota
- All cases may not have been recorded

Sources: Surg Cdr Wylie PMO HMS Yeovilton, Surg Cdr Baker Consultant Advisor to RN in Aviation Medicine