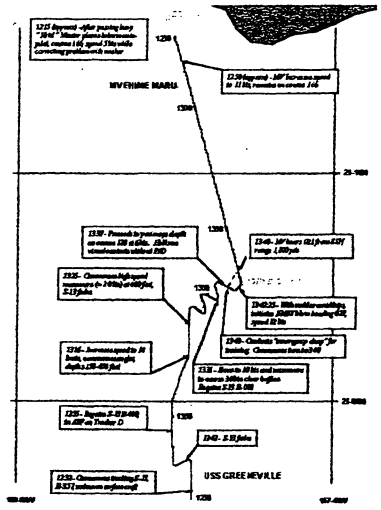
3/4
B.17

Overview of Incident



1) Reconstruction of Ehime Maru
   a) Based on Master's Statement
   b) Verified by ATC Radar data. - Exact Position not available
   c) Collision point not set to FAA Radar - to geographically off by ~1000 YDS

2) Greeneville's track generated solely by
   a) ST SLOGGER is input
   b) Only anchor point is collision point

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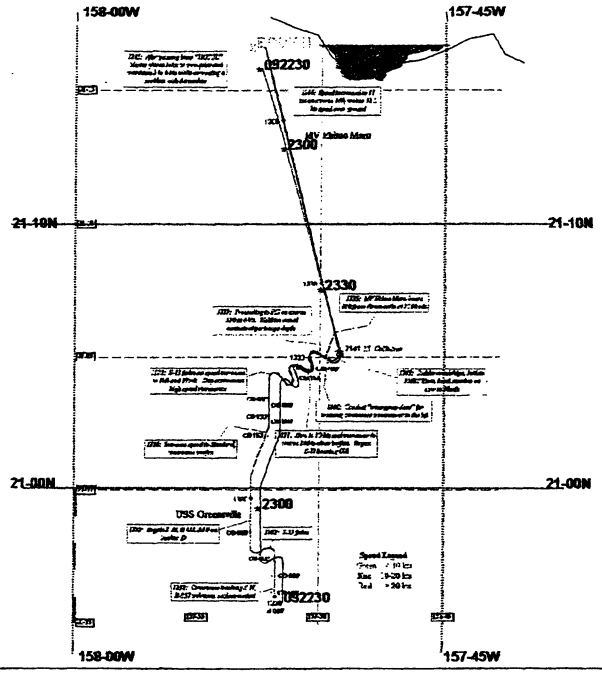
CSP N72 and CSP CSTT Tracks



~~Be~~

CSTT – independent analysis

– Anchored @ ESGN+ Collision point

Importance is to focus at the ~~three~~ minutes immediately prior to collision

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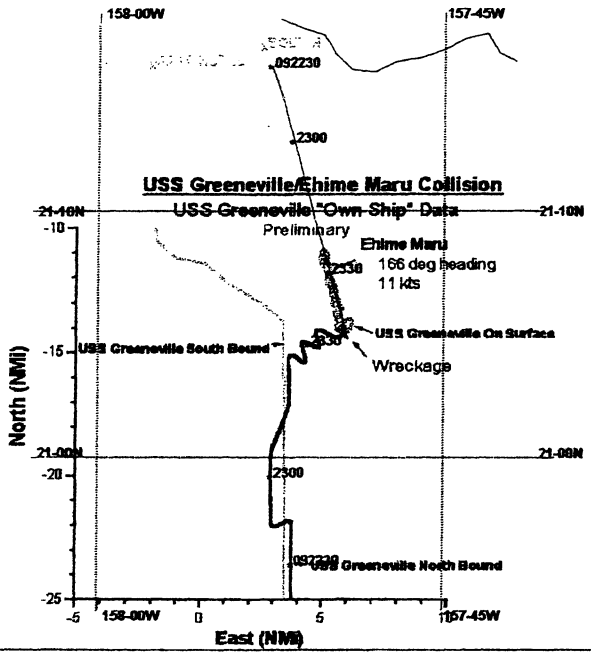
CSP N72 and NTSB Tracks



+ There are overlayed NTSB Product
  + Data Analysis Group
+ NTSB plotted radar data in Green
+ The tracks for Greenville are overlayed exactly

EXHIBIT 42
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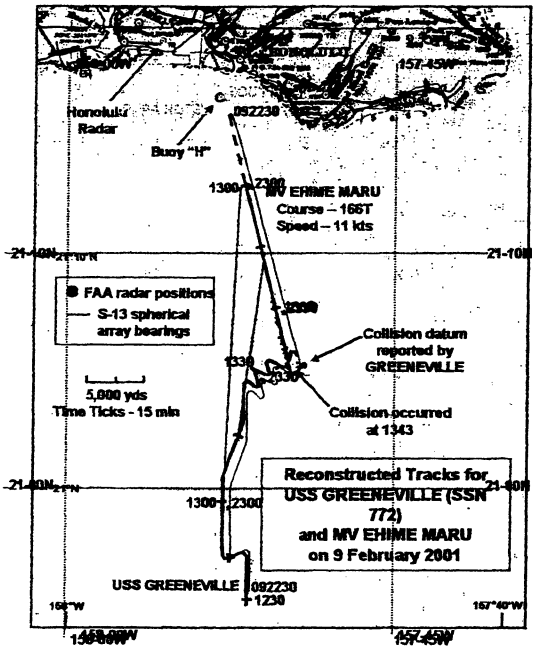
CSP N72 and CSDS 12 Tracks



Real World analysis group
at BEVRON 12

They anchored ~~a position~~ Greeneville's position at two points:
The collision point +
the subs last inertial position - known errors

EXHIBIT 42
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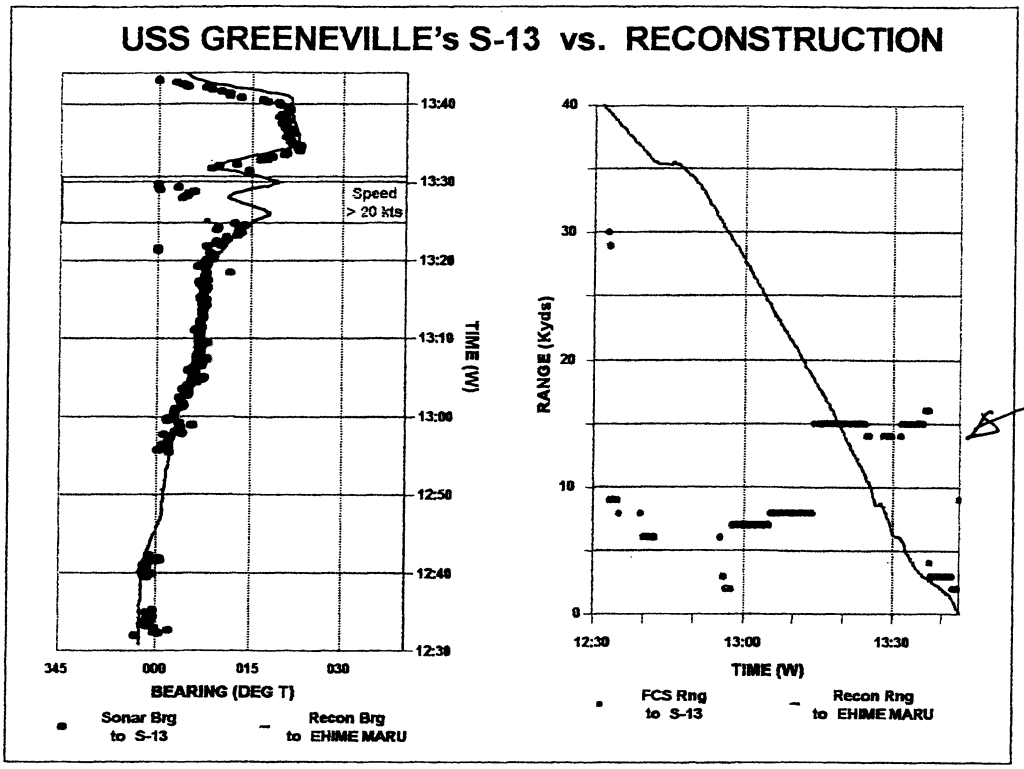

Northerly solution

Y Dmnr = 0

This is a very tight reconstruction giving me confidence in solution

Discussion 15 KYD Solution

C 024 / Speed 11 → headed toward Deemed Head

+ Isopat Explanation.

Not sensible from a geographic perspective

Trial / Mate / System Solutions

What was visible

Update occurred enroute to P.D.

+ after collision

The accurate SOLN occurred after high DB's dg. ≥ 6°/min

EXHIBIT 42
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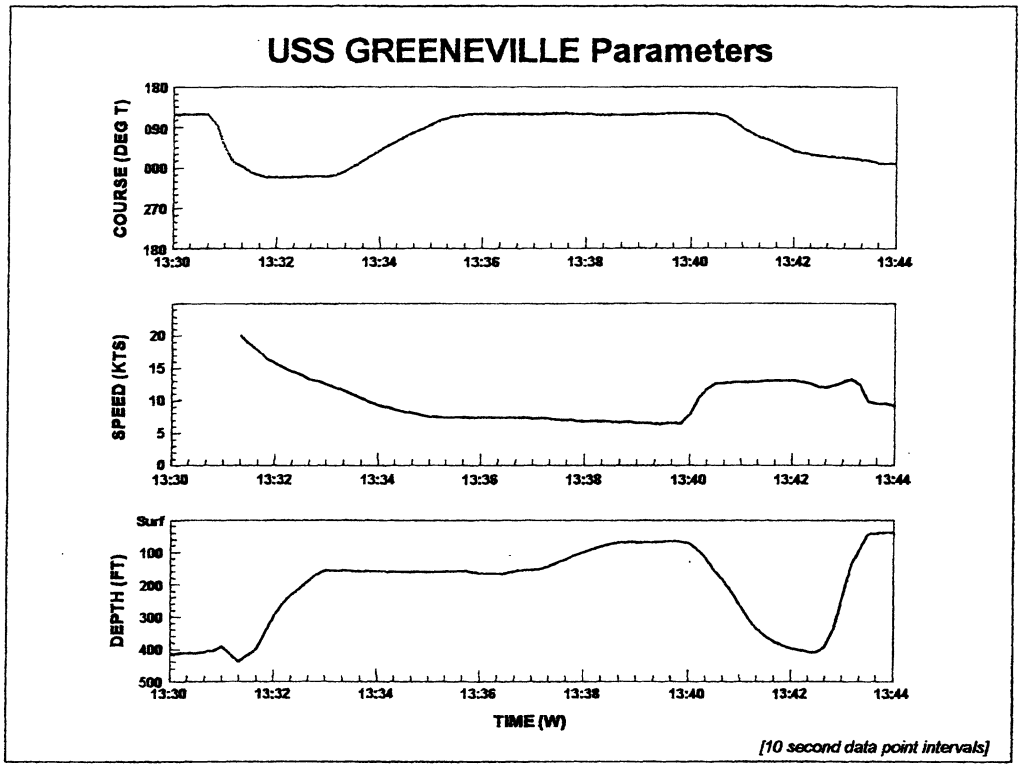

Caveats -

Grass plot up dated every one minute.

340 leg 1 1/2 minutes

Never steady in speed/depth

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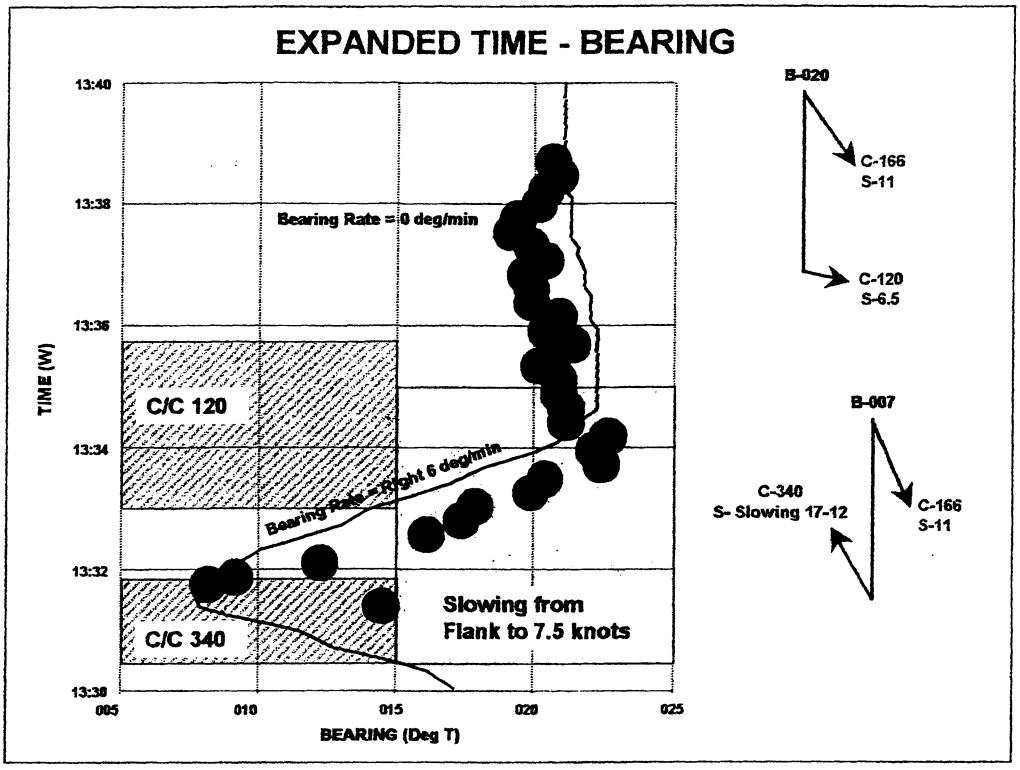

This is not a replication of data in FCS.

Super magnified

Period 32 – 34 caused

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If ship had done a 3 minute leg?

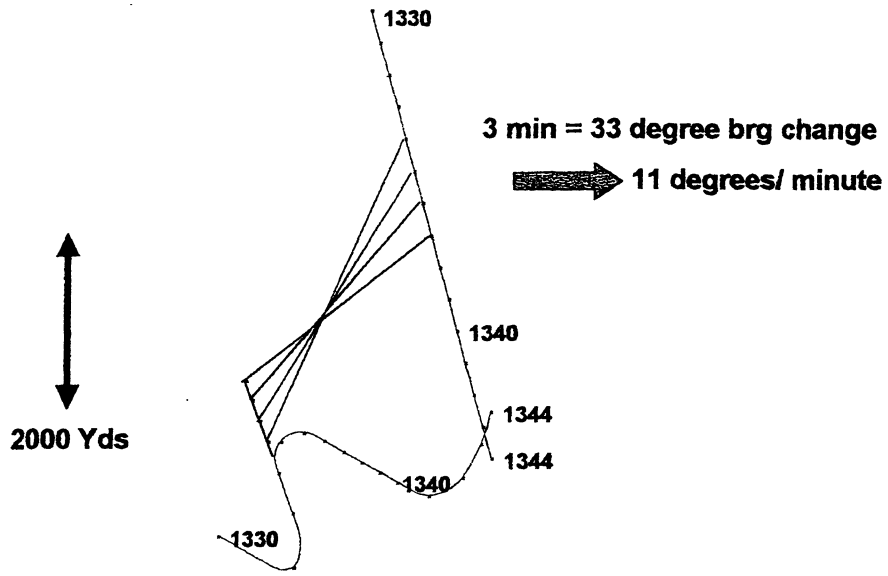

EXHIBIT 42
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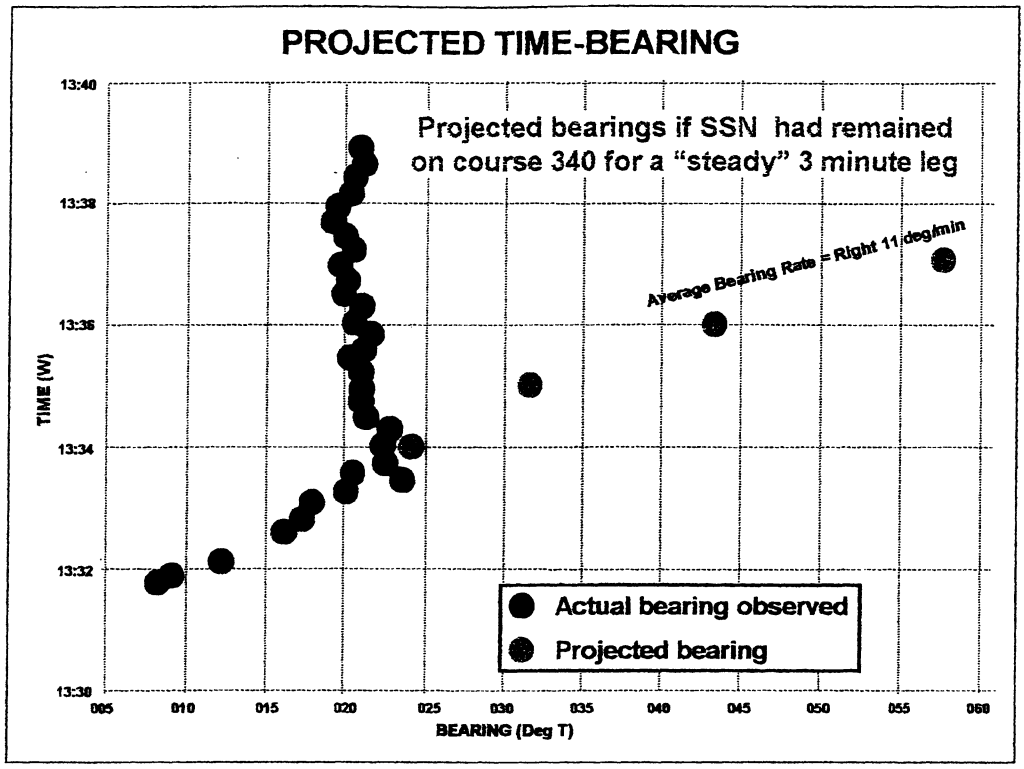
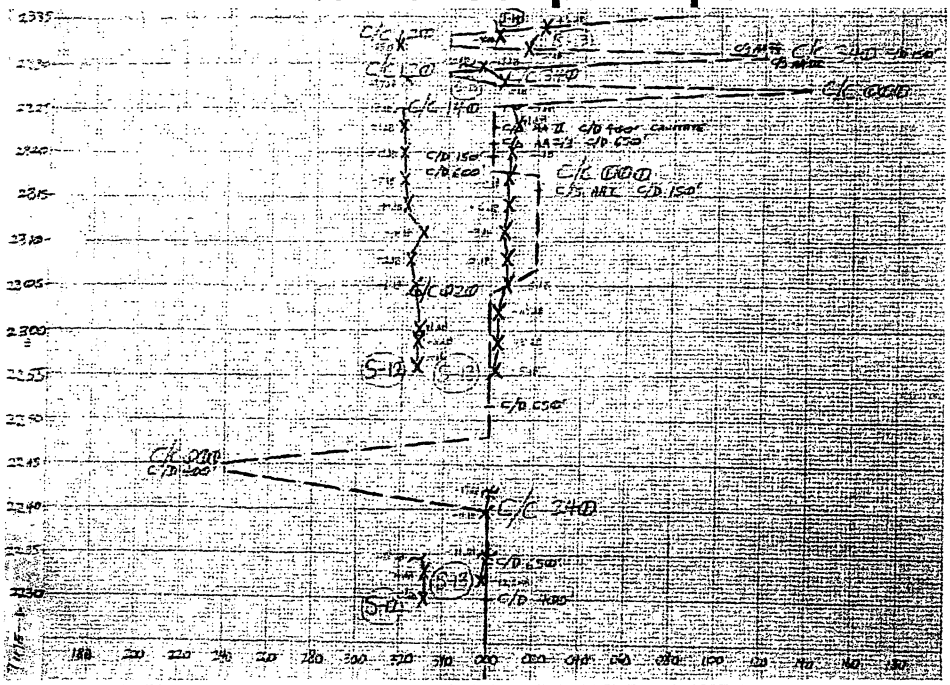


This would've been obvious to all operators!

No doubt
The FCS estimate of ≤ 3-4K would be confirmed beyond a shadow of a doubt

Adequacy of TMA - Choice of course.
- Suboptimal.
Collision course - S-13
S-14 who was quarantined on edge of baffles!

Prior to Periscope Depth



Multiple Contacts

See Slide 16 for P.11

Protocol for checks + balances
OOD +team first +
Then CO review

S-14 on edge of baffles
S-13 R-6 / Then O-
Collision course — 6.5 minutes

See slide 57 for back up

EXHIBIT 42
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After Periscope Depth

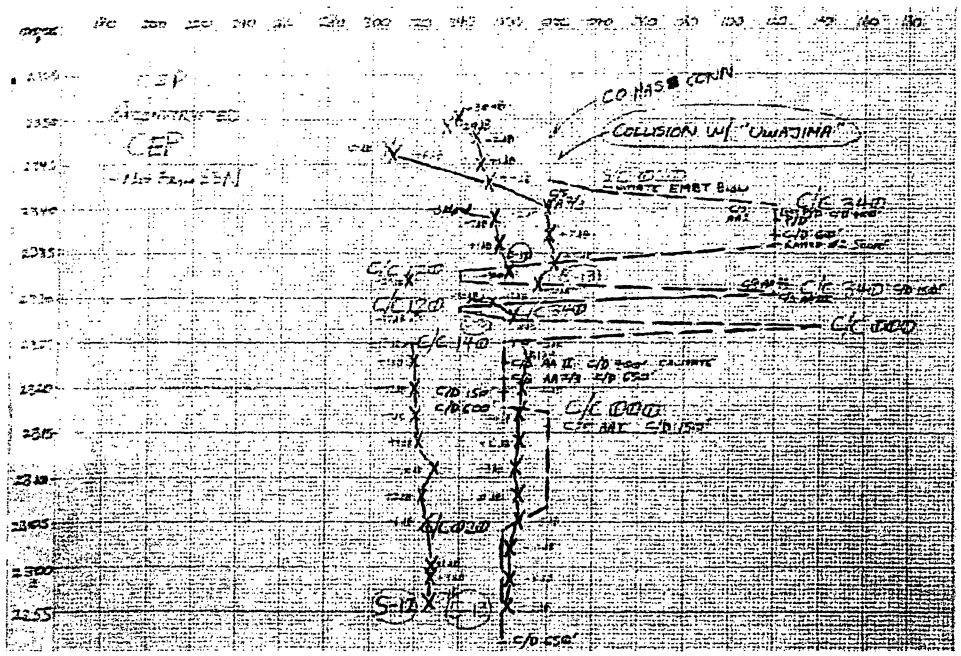

EXHIBIT 42
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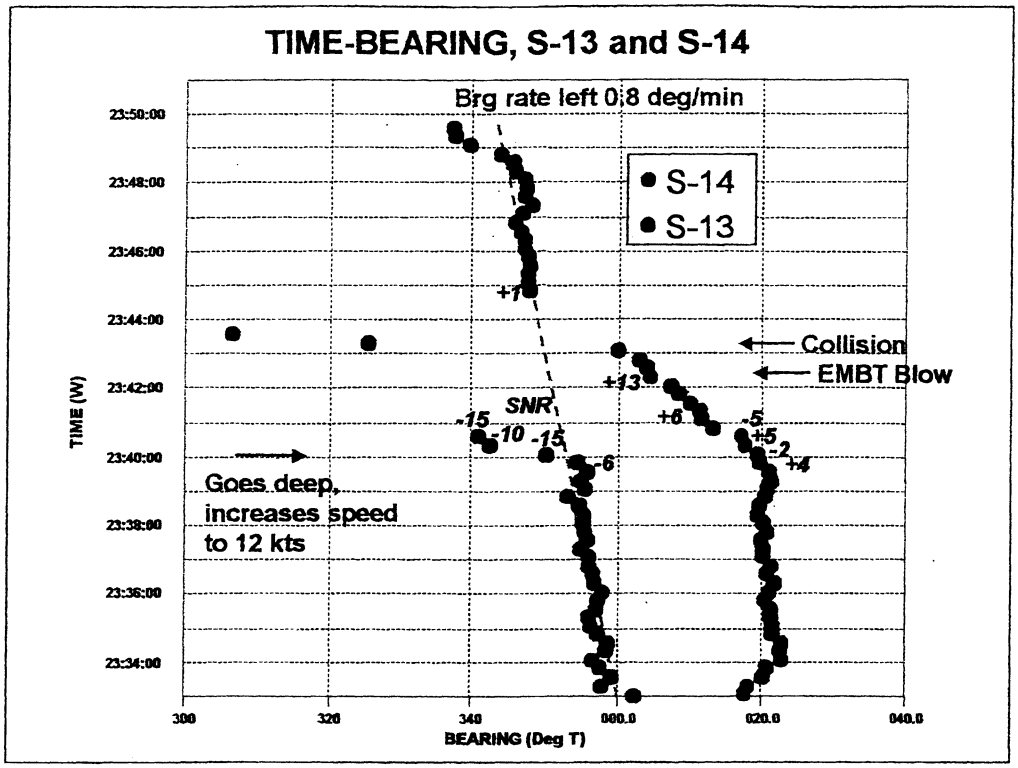

This shows that
S-13 was the contact

SNR ↑
Driving bearing rate
S-14 in baffles

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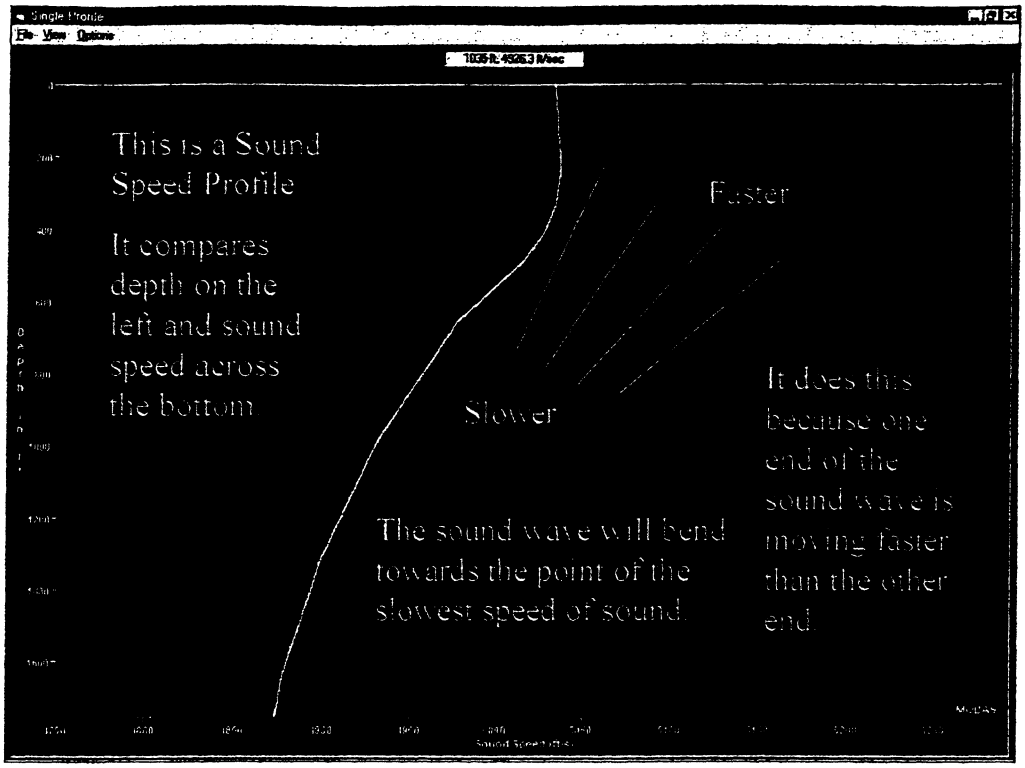

This is the sound velocity profile on the day in question
Taken from ship's stored data

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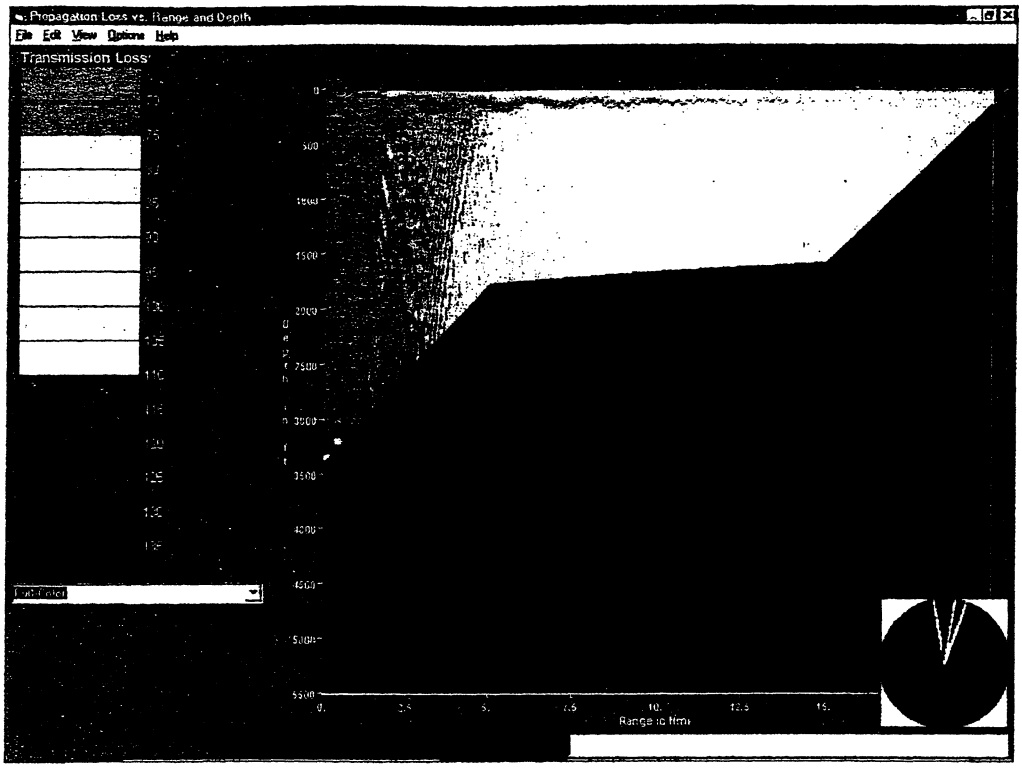

Good sound condition

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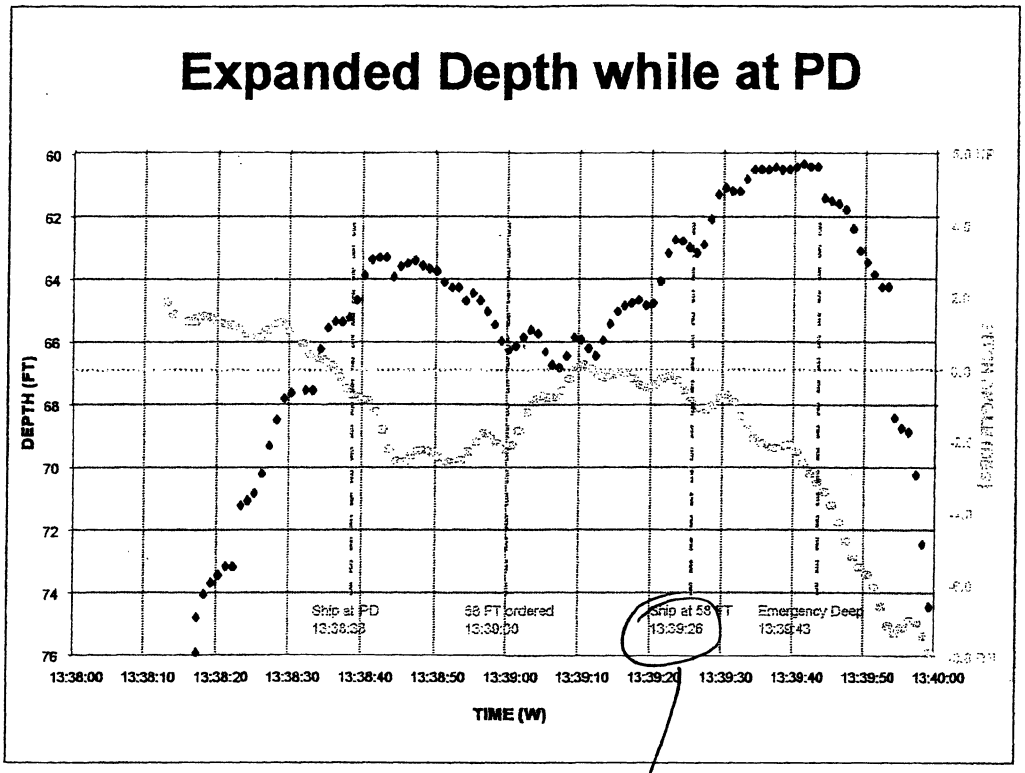


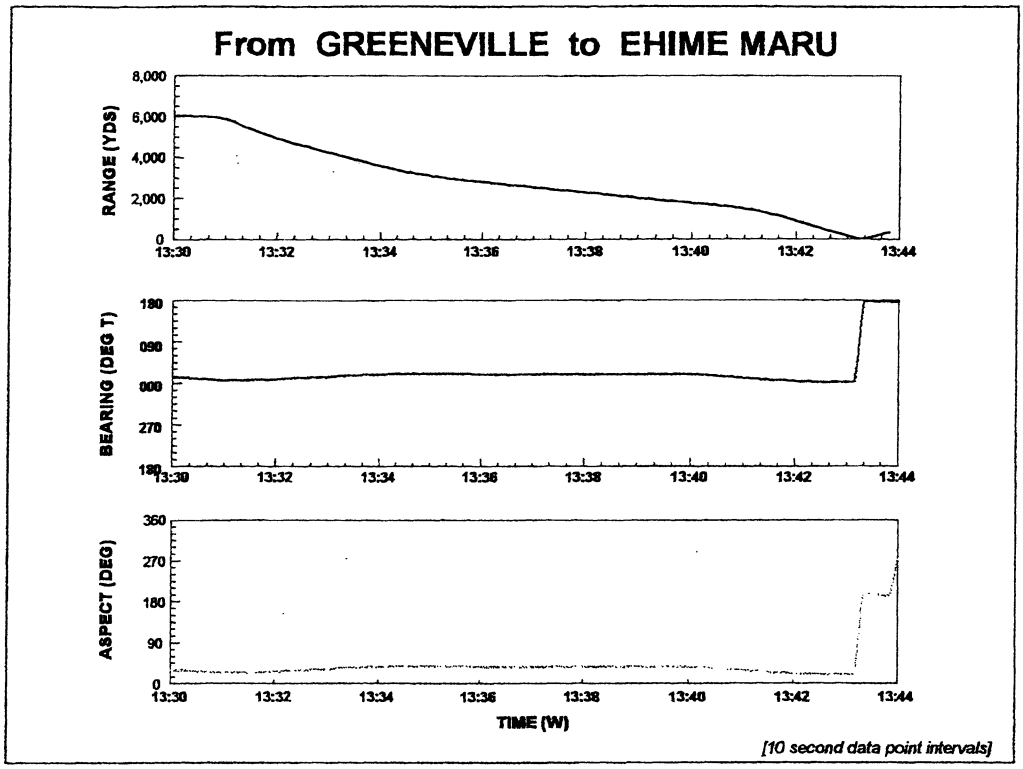
Should be
+ime 30

Periscope Depth SD. — NEVER Routine

- Preparations - brief
- Set up sensors
- Bring on water
- Clear baffles — > 120 Co A
  - Two legs on each contact
  - Try not to place contacts in baffles
  - 3 minute leg - for accurate determination of DB's → used in formulae + mental analysis

~~- Ody~~

- CO/OOD concur
- 61 feet normal - Adjustable based on sea state
- No one speaks until NCC/E.D.
- Thumb rules for evasion: 1 in last/4 in high Adjusted



Angle of bow 5-30

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BACKUP SLIDES

ARTICLE

- ~~2104~~ 2102 - Describes watchbills
- ~~2105~~ 2104 - LOGW by XO
  - Only qualified personnel on watch
    - ↳ Confirmed by OPGUIDELINE in "SHALL" terminology

CO - Officer
XO - Embarked COB

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