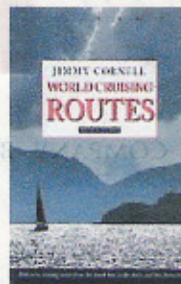




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Find:

Silicon Sea: Leg 91

From: Dan Hogan (*no email*)

Date: Mon May 03 2004 - 09:59:45 EDT

- **Next message:** [Trevor J. Kenchington: "Re: Apollo spacecraft sextant"](#)
- **Previous message:** [Jim Theriot: "Re: Hlep on Digital Charts"](#)
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Chart(s): Plotting Sheet, spchannel.jpg, NOAA 18022

Dead-Reckoning problem Leg 91 050104 Test your knowledge!

Our last position A Running FIX(36d 27.4'N 126d 56.3'W) was on
17/09/2002

@ 02:11:20UT. The clouds have thickened and a fog is building. We have
traveled

310.5 Nmi since the RFIX Position.

TC 112.1d, Speed 10.0 Kts.

We are headed for MOP4(34d 20.0'N 120d 33.0'W) at the entrance to the
Santa
Barbara Channel in Southern California.

1) What is the DR position at the end of the 310.5 Nmi run?

2) What is the Zone Time at the DR position?

3) From the DR position, what is the TC and distance to MOP4(34d 20.0'N
120d 33.0'W)?
--

Sailing in a thick fog we anxiously wait for dawn. At 12:14:
18/09/2002 we

sight a lighted bouy, FL(4)Y 20s PA. The chart lists it as a
weather bouy. In the fog we here the fog horns of ships in t
Channel Ship Traffic Lane.

As the light brightens we see an Island about 2 points off t
bow.

Checking chart NOAA 18022 we determine that we are looking a
Island.

With the fog and heavy ship traffic in the channel we elect
channel. We will go outside of the Santa Barbara Channel Isl
alter our

course to due South. So as to pass well clear of Richardson
of

the West end of San Miguel Island.

At 04:20:10ZT we are 5.6 miles West, abeam of Richardson Roc
(34d 01.2'N 120d 06.2'W). We set a course for (33d 45.0'N 120^{00.0'W})
we call it MOP5.

Speed 10 Kts, Var 13dE, Dev 2.5dW. Current Set 145d, Drift 0.2KT,

4) What is the Compass Course/Course-to-Steer?

From MOP5 we plot a course to the Pt. Fermin Light which is
prominent heights above San Pedro Harbor.

Speed 9.5 Kts, Dev 13dE, Var 2.0dW, Current Drift 0.2 Kts, S

5) What is the TC and Distance to Pt. Fermin(33d 42.3'N 11
MOP5(33d 45.0'N 120d 00.0'W)

What is the Compass Course/Course-to-Steer(CC)?

6) What is our Estimated Time of Arrival(ETA), in Zone Time

7) In Zone Time(ZT), what is our Estimated Time of Arrival(

Pt. Fermin? To the nearest minute is adequate for picky

NOTE:

Lat & Lo = XXd XX.X', Date=DD/MM/YY, HE 9 Feet, Index correc
 -2.5', Time hh:mm:ss in UT, unless otherwise stated. Silicon
 Sea II is a 34,000 lb(15.40t) displacement sailing vessel, 4
 (14.70m) LOA. 39' (12.00m) LWL; Cutter rigged. Can tack to 4
 Water Tanks = 220 gal(1000 ltrs). Fuel Tanks = 155 gal(700 l
 Fuel consumption .675 gal/Hr at 8.5 Kts. DR(Ded-Reckoning)=p
 by sailings, EP(Estimated Position)=DR+current affect. Dist
 Horizon: Nmi = SQRT HE at mtrs x 2.07; Nmi = SQRT HE at ft x
 PLEASE respond with your results and thinking on these exerc
 the NAVIGATION list at large. If you have questions or probl
 lot of folks on the list are knowledgeable and willing to he
 questions or doubtful areas will be responded to promptly. L
 hear from you soon!

Good Navigating!

--The Navigation List Working Group--

Peter Smith -

Federico Rossi -

Dan Hogan -

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