JN 99/01

Student Manual Update Number 1

for

Junior Navigation 99/01

November 2002

This packet contains **Update Number 1** for Junior Navigation Student Manual JN 99/01. This Update Packet consists of these instructions and 3 sheets listing 37 changes.

Students should be given an Update Packet with the course material and should make the changes at the first session of the class.

The following sheets contain instructions to make the changes. As each change is made and verified, check it off on the sheet.

After all changes are made, the sheets listing these changes should be inserted behind the cover page of the manual for reference, if needed.

UNITED STATES POWER SQUADRONS®

Offshore Navigation Committee

SM Update No. 1 for JN 99/01
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Change #	Section	Page	Column	Paragraph	Line	Change
☐ 1	5	5	R	18	3	Change symbol for Aries to "♈".
☐ 2	6	5		Fig. 6-1c		Change symbol after "GHA" to "☉"
☐ 3	8	9		Fig. 8-5a		Label Sun LOP as "0800-1200" SUN
☐ 4	9	20		Ques. 14		Change "Course is 110˚T;" to "Course is 100˚T,"
☐ 5	10	6	L	40- step 2	7	Change "5˚ x 5 min. = 2.5 min. or 3 min." to "(5˚/10˚) x 5 min. = 2.5 min. or 3 min."
☐ 6	10	6	L	40- step 3	6	Change GHA Aries from "168˚ 56.4' " to "168˚56.3' "
☐ 7	10	6	L	40- step 3	7	Change RA Moon from "158˚55.9' rounded to 159°" to "158˚55.8' rounded to 159°"
☐ 8	10	6	R	40- step 5	2	Change GHA Aries from "168˚56.4' " to "168˚56.3' "
☐ 9	10	6	R	40- step 5	4	Change LHA Aries from "73˚56.4' rounded to 74°" to "73˚56.3' rounded to 74°"
☐ 10	10	7		Fig. 10-5		In the list of bodies available for sights, change the magnitude of Saturn from "0.7" to "0.3"
☐ 11	10	7		Fig. 10-5		In the list of bodies available for sights, change the magnitude of Mars from "0.7" to "1.4"
☐ 12	10	7		Fig. 10-5		In the list of bodies available for sights, change the magnitude of Venus from "-4.7" to "-3.7"
☐ 13	10	11	R	Problem 1		In the last paragraph, add the following as a last sentence: "Arcturus, Vega and Jupiter will also provide a good 3-body fix".

[*continued*]

Change #	Section	Page	Column	Paragraph	Line	Change
☐ 14	10	16		Ques. 6b		Change "Choose the bodies for a 2-body and a 3-body twilight fix." to "Choose the first magnitude stars, planets and Moon, if visible, for a two body and a three body fix at 2000".
☐ 15	11	9	L	34- step 6	13,14	Change "The destination coordinates (to the nearest whole minute) are:" to "The destination coordinates (to the nearest tenth of a minute) are:"
☐ 16	11	9	L	34- step 6	17,18	Change "worksheet on page 11-16" to "worksheet on page 11-15"
☐ 17	App. G	4	L	7- item F		Add a new sentence at the end of Item F: "Time diagrams on the SR forms do not have to be completed."
☐ 18	App. G	4	R	7- item H3a	2	Add to end of sentence "using the method described in Section 9 page 11."
☐ 19	App. H	5	R	Ques. 13a	5	Change to "GHA★ = GHA ♈ + SHA ★"
☐ 20	App. H	5	R	Ques. 13a	7	Change to "GHA ★ = 405° - 360° = 45°"
☐ 21	App. H	7		Ques. 13c		In the answer, change the latitude from "29°36.4'N" to "28°36.4'N"
☐ 22	App. H	14	L	Ques. 6a	7	Change the GHA of the Sun from "134°" to "179°"
☐ 23	App. H	14	L	Ques. 6a	8	Change the GHA of the Moon from "265°" to "309°"
☐ 24	App. H	14	L	Ques. 6a	8	Change the RA of the Moon from "329°" to "330°"
☐ 25	App. H	14	L	Ques. 6a	11,12	Change the LHA of Aries from "218°08.6' round to 218°" to "217°08.6' round to 217°"
☐ 26	App. H	14	L	Ques. 6b	4	Change Deneb Zn from "50°" to "49°"
☐ 27	App. H	14	L	Ques. 6b	5	Change Vega Alt from "42°" to "41°"
☐ 28	App. H	14	L	Ques. 6b	6	Change Antares Zn from "151°" to "150°"
☐ 29	App. H	14	L	Ques. 6b	8	Change Spica Alt from "41°" to "43°"
☐ 30	App. H	14	L	Ques. 6b	9	Change Regulus Zn from "266°" to "267°"

[*continued*]

Change #	Section	Page	Column	Paragraph	Line	Change
☐ 31	App. H	15	R	Ques. 12b	3	Change the value for D from “412nm (411.6)” to “412nm (411.9)”
☐ 32	App. H	23		Table H-2	1	Change the set of the current from “267°” to “269°”
☐ 33	App. H	23	L	Ques. h	7	Change compass course from “020°” to “019°”
☐ 34	App. H	23	L	Ques. h	12	Change “020°” to “019°”
☐ 35	App. H	25		Log		At the top of the time column add “ZD + 1”
☐ 36	App. H	27		Plot		Label 2130-2230 course segment with “C237/S3.5”
☐ 37	App. H	27		Plot		Change label for 2230-0430 course segment from “C237/S3.5” to “C237/S4.2”

Updates are provided to keep the course material as current and correct as possible. The national course chairman welcomes all comments and suggestions. This Update includes submissions received by the Offshore Navigation Committee from interested instructors and students.

The Offshore Navigation Committee