## Underway Geophysics Lab Cookbook RUNNING A SECOND VEHICLE IN WINFROG

Update Nov. 2003

Multiple vehicles can be displayed on Primary WinFrog and networked machined can run remotely from Primary Win Frog. To run a remote, see the end of this section. Currently we run two additional vehicles on the UW Primary WinFrog display linked from DP WinFrog, "DP Trimble" and "DP Ashtec." From the Vehicle window at the bottom of the screen click on the Config button.

🐣 Vehicle			
Vehicle Line J. Reso	lution 04:14:53	.6 FIX 356	File 1201_2.DAT
Position Waypt N19 17	7.8861 E135 0	5.9473 EL 0.00	)m
Config Events SPD 0.0	0kts   HDG 019.2	CMG 295.8	91-0342.RAW
Name Offset			

The Configure Vehicles window pops up. Select Add. A new Vehicle is inserted. Next click on the Name button.

Configure V	'ehicles	? ×	
Vehicles			
J. Resolu	ution		
Vehicle3			Close
			Add 1
1			
Waypoint	Position	Size	Delete
Offset	Fairleads	Name	
Line	Events	Rings	Help
CAL	DynTrk		
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The Vehicle Presentation window pops up. Enter the name of the new vehicle, "DP Trimble" and select the Graphics Outline color (The name of the vehicle must be identical to the name on DP WinFrog). Note: Ignore the "Sedco 471" name in these diagrams and substitute "DF Trimble"

Vehicle Presentation	? ×	Vehicle Presentation	
Name	Vehicle Window Data	Name	_ Vehicle Window I
Vehicle3	OOff ⊙On	Sedco 471	⊂ Off ⊙ O
Graphics Outline	Event Generation	Graphics Outline	Event Generation
O Off 💿 On	<ul> <li>Off</li> </ul>	◯ Off ⊙ On	Off
🔽 1:10000 Limit	C Event Primary	🔽 1:10000 Limit	O Event Primary
Plot Vector	C Event Secondary	Plot Vector	C Event Second
Vector Scale 1.0	Anchor Fairleads	Vector Scale 1.0	Anchor Fairleads
Color Edit	O Possible		O Possible
Profile Window	Not Possible	Profile Window	Not Possible
Graphics Trail		Graphics Trail	
🔽 On 🛛 Clear Memo	ry 🔲 Hazard Alarm	🗌 🗍 On 🛛 Clear Memo	ory 📃 🗖 Hazard Ala
Interval 1.0sec	Color	Interval 1.0sec	Color
Trail Length 50ea	Edit	Trail Length 50ea	Ed
OK Can	cel Help	OK Car	ncel Help

Say OK. The Configure Vehicles screen will look like this. Click on the Position button.

	Configure V	ehicles		? ×
	Vehicles J. Resolu Sedco 4	ution 71		Close
				Add
	Waypoint	Position	Size	Delete
	Diffset	Fairleads	Name	
/	Line	Events	Rings	Help
	CAL	DynTrk		

The Configure Vehicle box will appear. Select Network for Data Source. In the Devices field, select Primary and click Add.

Configure Vehicle Calculations	? X
Position         ● L/L           N21 00.0015         ● Grid           E133 27.6035         ● Grid           Elev         Copy           0.00m         □ Update	Kalman Filter
Data Source O Simulated O Real-Time O Network O File O Telemetry O Pipe Track O Ctrld Remote	Velocity Filter
Calculations Heading Streamer	Range Gate
Primary: Secondary:	Add Edit Delete
OK Cancel	Help

Navigate to the network location of the DP WinFrog computer to find their ship.nps file.

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	Files of <u>t</u>	ype:	Vehicle Fil	es (*.NPS)			•	Ca	ancel

Click on "Workgroup" then choose DP Winfrog>FROG\_OUT>ship.nps. The file ship.nps contains the device information you are looking for. Open the file. Click Ok on the Configure Vehicle Calculations screen and you are all set.

Repeat the above steps to add the "DP Ashtec" vehicle and make sure to give it a different color.

Running the DP WinFrog vehicles "DP Trimble" and "DP Ashtec" in background to the UW WinFrog vehicle "J. Resolution" is a good way to tell if gyro or GPS antenna settings have been lost. If this happens, the outlines of the two ships will not be in the same location. No immediate actions are needed though, usually waiting for a couple of minutes fixes the problem.

Finally, you may note that the outline of the DP vehicles are the wrong size. You can fix this by clicking on the "config" button in the Vehicle Window. The Configure Vehicles window will open. Click on "size". You can then assign the correct size parameters by loading from the joides.veh file. There is a backup file on Tech\Underway.

## SETTING UP A REMOTE TO PRIMARY WINFROG

The WinFrog machine in the User Room and on the Bridge run as remotes or "Smart Remotes" to the Primary WinFrog in Underway. The User Room machine broadcasts the WF display to the ship-wide TV system. In order to run the remote, open WF in demo mode on the remote machine. Follow the procedures outlined at the beginning of this section on creating a new vehicle. When you name the vehicle, the name must be <u>identical</u> to the name of the vehicle on Primary WF (including upper and lower case characters and spaces in the name), in this case "J. Resolution".

In the Configure Vehicles window click Position bringing up the Configure Vehicle Calculations window. Select Network as the Data Source. In the Devices Field, select Primary and click Add.

Position       Kalman Filter         N21 00.0015       Grid         Elev       Copy         0.00m       Update         Data Source       Velocity Filter         Simulated       Real-Time         Network       File         Telemetry       Pipe Track         Calculations       Purge         Heading       Streamer         Devices       Primary:         Secondary:       Add         Edit       Delete	Configure Vehi	cle Calculations	?×
Data Source       Velocity Filter         ○ Simulated       ○ Real-Time         ○ Network       ○ File         ○ Telemetry       ○ Pipe Track         ○ Ctrld Remote       □ Purge         Calculations       □ Range Gate         □ Heading       ☑ Off 100.00m         □ Streamer       ✓ Off 100.00m         Devices       Primary:         Secondary:       Add         E dit       Delete	Position N21 00.0015 E133 27.6039 Elev 0.00m	Copy	Kalman Filter 0.10 Off Purge Dead Recon
Calculations Heading Streamer	Data Source – C Simulated O Network C Telemetry C Ctrld Remo	C Real-Time C File C Pipe Track e	Velocity Filter
Devices Primary: Secondary: Add Edit Delete	- Calculations Heading Streamer		Range Gate ✓ Off 100.00m ✓ →
	Devices Primary: Secondary:		Add Edit Delete

Navigate to the network location of the **ship.nps** file on WinFrog1.

Open						? ×
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In the Navout folder you will find the **Ship.nps** vehicle file. Open this file. The outline of the vehicle "J. Resolution" should appear on the screen.

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