HVF To DAPR Matching

A very basic tool to help match your HVF to your DAPR

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

- DAPR
  - Metadata
  - System Equipment And Soft
  - System Alignment And Accu
  - Data Acquisition And Proces
  - Data Quality Management
  - Appendices
  - Approval Sheet

Metadata | System Equipment And Software | **System Alignment And Accuracy** | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

◉ Correctors Applied   ○ Correctors Not Applied

Vessel

Hull Number   ASV007

Manufacturer   Picotech, LTD.

System   PicoMBES-120SF

Date   04/20/2018

MRU (Reference Point) to Transducer

X

Units
0   meters

X Uncertainty

Units
0.020   meters

Y

Units
-0.033   meters

Y Uncertainty

Units
0.020   meters

Z

Units
0.258   meters

Z Uncertainty

Units
0.020   meters

X2

Units
          meters

X2 Uncertainty

Units
          meters

Y2

Units
          meters

Y2 Uncertainty

Units
          meters

Filter:
🔍 Search

EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

- Draft
- TPU values
  - OffSets
  - StdDev
- SVP 1
- Waterline Height

	MRU to Trans X ..	MRU to Trans Y ..	MRU to Trans Z ..	Nav to Trans X (..	Nav to Trans Y (..	Nav to Trans Z (..	Trans Roll (deg)
1	0.000	-0.033	0.258	0.000	0.360	0.578	0.000
2							

Ready

File   Window   Help

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

DAPR
- Metadata
- System Equipment And Soft
- System Alignment And Acc
- Data Acquisition And Proces
- Data Quality Management
- Appendices
- Approval Sheet

Metadata | System Equipment And Software | **System Alignment And Accuracy** | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

◉ Correctors Applied   ○ Correctors Not Applied

Vessel

Hull Number   ASV007

Manufacturer   Picotech, LTD.

System   PicoMBES-120SF

Date   04/20/2018

MRU (Reference Point) to Transducer

X
0   Units meters

X Uncertainty
0.020   Units meters

Y
-0.033   Units meters

Y Uncertainty
0.020   Units meters

Z
0.258   Units meters

Z Uncertainty
0.020   Units meters

X2
         Units meters

X2 Uncertainty
         Units meters

Y2
         Units meters

Y2 Uncertainty
         Units meters

Filter:
Search

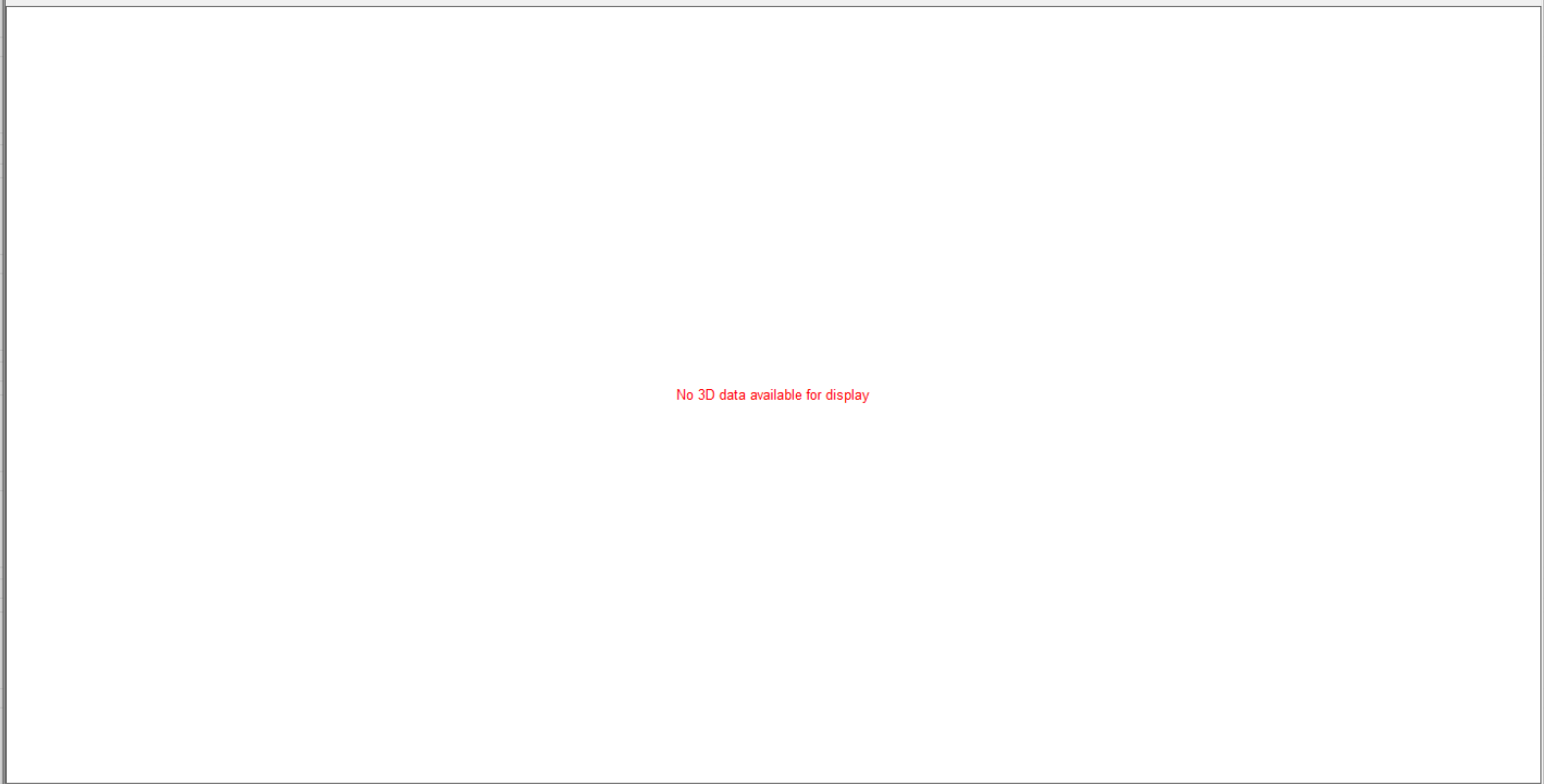
EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

- Draft
- TPU values
  - OffSets
  - StdDev
- SVP 1
- Waterline Height

		Nav timing (s)	Gyro Timing (s)	Heave Timing (s)	Pitch Timing (s)	Roll Timing (s)	Offset X (m)	Offset Y (m)	Offset Z (m)	Vessel Speed (m...	Loading (m)	Draft (m)	Delta Draft (m)	
1		0.010	0.010	0.010	0.010	0.010	0.020	0.020	0.020	0.400	0.001	0.001	0.010	2.
2														

NUM

File Window Help

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

DAPR

- Metadata
- System Equipment And Soft
- System Alignment And Accu
- Data Acquisition And Proces
- Data Quality Management
- Appendices
- Approval Sheet

Metadata | System Equipment And Software | **System Alignment And Accuracy** | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

Navigation to Transducer

X
Units
0   meters

X Uncertainty
Units
0.02   meters

Y
Units
0.360   meters

Y Uncertainty
Units
0.02   meters

Z
Units
0.578   meters

Z Uncertainty
Units
0.02   meters

X2
Units
meters

X2 Uncertainty
Units
meters

Y2
Units
meters

Y2 Uncertainty
Units
meters

Z2
Units
meters

Z2 Uncertainty

Filter:

EchoBoat_PicoMB_2018.hvf -

File Edit View Tools Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

- Draft
- TPU values
  - OffSets
  - StdDev
- SVP 1
- Waterline Height

		MRU to Trans X ...	MRU to Trans Y ...	MRU to Trans Z ...	Nav to Trans X (..	Nav to Trans Y (..	Nav to Trans Z (..	Trans Roll (deg)
1		0.000	-0.033	0.258	0.000	0.360	0.578	0.000
2								

NUI

File Window Help

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

- DAPR
  - Metadata
  - System Equipment And Soft
  - System Alignment And Accu
  - Data Acquisition And Proces
  - Data Quality Management
  - Appendices
  - Approval Sheet

Metadata | System Equipment And Software | System Alignment And Accuracy | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

Navigation to Transducer

X
Units
0
meters

X Uncertainty
Units
0.02
meters

Y
Units
0.360
meters

Y Uncertainty
Units
0.02
meters

Z
Units
0.578
meters

Z Uncertainty
Units
0.02
meters

EchoBoat_PicoMB_2018.hvf -

File Edit View Tools Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor
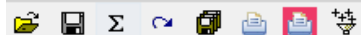
- Draft
  - TPU values
    - OffSets
    - StdDev
  - SVP 1
  - Waterline Height

	Pitch Timing (s)	Roll Timing (s)	Offset X (m)	Offset Y (m)	Offset Z (m)	Vessel Speed (m...	Loading (m)	Draf
1	0.010	0.010	0.020	0.020	0.020	0.400	0.001	0.00
2								

NUI

File   Window   Help

DAPR
  Metadata
  System Equipment And Soft
  System Alignment And Accu
  Data Acquisition And Proces
  Data Quality Management
  Appendices
  Approval Sheet

Metadata | System Equipment And Software | **System Alignment And Accuracy** | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

Y2

Units

meters

Y2 Uncertainty

Units

meters

Z2

Units

meters

Z2 Uncertainty

Units

meters

Transducer Roll

Roll

0

Units

degrees

Add Roll2 Offset

EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

		MRU to Trans X ...	MRU to Trans Y ...	MRU to Trans Z ...	Nav to Trans X (...	Nav to Trans Y (...	Nav to Trans Z (...	Trans Roll (deg)
Draft	1	0.000	-0.033	0.258	0.000	0.360	0.578	0.000
TPU values	2							
OffSets								
StdDev								
SVP 1								
Waterline Height								

NUI

File Window Help

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

- DAPR
  - Metadata
  - System Equipment And Soft
  - System Alignment And Accu
  - Data Acquisition And Proce:
  - Data Quality Management
  - Appendices
  - Approval Sheet

Metadata | System Equipment And Software | **System Alignment And Accuracy** | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | **Static And Dynamic Draft** | System Alignment And Accuracy

B.2 Static and Dynamic Draft

Describe all static and dynamic draft correctors applied to echo soundings.

B.2.1 Static Draft Results

Explain how waterline heights are measured for each vessel. Note how the waterline height measurement is referenced to each vessel's reference point. Discuss how fuel usage and other factors influence waterline height for each vessel.

Methods And Procedures | Static draft for EchoBoat was calculated using manufacturer provided measurements. The calculated value is entered directly into the HVF for use by Charlene for processing.

Add Image

B.2.1.1 Static Draft Correctors

◉ Correctors Applied   ○ Correctors Not Applied

Vessel

Hull Number | ASV007

Date | 04/20/2018

Static Draft Values

0.003 | Units | meters

Static Draft Uncertainty

0.001 | Units | meters

Loading Uncertainty

0.001 | Units | meters

Add Vessel

Comments

Add Field Comment

EchoBoat_PicoMB_2018.hvf -

File Edit View Tools Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

- Draft
  - TPU values
    - OffSets
    - StdDev
  - SVP 1
  - Waterline Height

	Date	Time	Apply	Waterline (m)	Comments
1	2018-110	00:00	Yes	0.003	(null)
2		00:00			

NUI

XmIDR v19.4(r10387)

File   Window   Help

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

DAPR
— Metadata
— System Equipment And Soft
— System Alignment And Accu
— Data Acquisition And Proces
— Data Quality Management
— Appendices
— Approval Sheet

Metadata | System Equipment And Software | **System Alignment And Accuracy** | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | **Static And Dynamic Draft** | System Alignment And Accuracy

B.2 Static and Dynamic Draft

Describe all static and dynamic draft correctors applied to echo soundings.

B.2.1 Static Draft Results

Explain how waterline heights are measured for each vessel. Note how the waterline height measurement is referenced to each vessel's reference point. Discuss how fuel usage and other factors influence waterline height for each vessel.

Methods And Procedures | Static draft for EchoBoat was calculated using manufacturer provided measurements. The calculated value is entered directly into the HVF for use by Charlene for processing.

Add Image

B.2.1.1 Static Draft Correctors

◉ Correctors Applied   ○ Correctors Not Applied

Vessel

Hull Number | ASV007

Date | 04/20/2018

Static Draft Values

Units
0.003 | meters

Static Draft Uncertainty

Units
0.001 | meters

Loading Uncertainty

Units
0.001 | meters

Add Vessel

Comments

Add Field Comment

Add Branch Comment

EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

Draft
  TPU values
    OffSets
    StdDev
  SVP 1
  Waterline Height

	Z (m)	Vessel Speed (m...	Loading (m)	Draft (m)	Delta Draft (m)	MRU Align StdDev gyro	MRU Align StdDev R...
1		0.400	0.001	0.001	0.010	2.000	2.000
2							

NUI

File   Window   Help

Data Acq Processing Report   schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E-904-BH2-18_DAPR_Draft.xml

DAPR
- Metadata
- System Equipment And Soft
- System Alignment And Accu
- Data Acquisition And Proces
- Data Quality Management
- Appendices
- Approval Sheet

Metadata | System Equipment And Software | System Alignment And Accuracy | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

B.2.2.1 Dynamic Draft Correctors

⦿ Correctors Applied   ◯ Correctors Not Applied

Vessel

Hull Number   ASV007

Date   04/20/2018

Dynamic Draft Table

Draft	Speed
0	0
Units	Units
meters	meters/second

Dynamic Draft Table

Draft	Speed
0.30	0.50
Units	Units
meters	meters/second

Dynamic Draft Table

Draft	Speed
0.36	1.00
Units	Units
meters	meters/second

Dynamic Draft Table

Draft	Speed
0.38	1.50
Units	Units
meters	meters/second

Add Dynamic Draft Values

Speed Uncertainty

| | Units |
| 0.40 | meters/second |

Draft Uncertainty

| | Units |
| 0.01 | meters |

Add Vessel

EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00

Table

	Draft (m)	Speed (m/s)
1	0.000	0.000
2	0.300	0.500
3	0.360	1.000
4	0.380	1.500
5		

OK   Cancel

CARIS HIPS and SIPS Vessel Editor

- Draft
  - TPU values
    - OffSets
    - StdDev
  - SVP 1
  - Waterline Height

	Date	Time	Apply	Error	Comments
1	2018-110	00:00	No	Edit	
2		00:00		Edit	

NUI
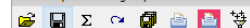
XmIDR v19.4(r10387)

File   Window   Help

Data Acq Processing Report   schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

DAPR

- Metadata
- System Equipment And Soft
- System Alignment And Accu
- Data Acquisition And Proces
- Data Quality Management
- Appendices
- Approval Sheet

Metadata | System Equipment And Software | System Alignment And Accuracy | Data Acquisition And Processing | Data Quality Management | Appendices | Approval Sheet

Vessel Offsets And Layback | Static And Dynamic Draft | System Alignment And Accuracy

B.2.2.1 Dynamic Draft Correctors

◉ Correctors Applied   ○ Correctors Not Applied

Vessel

Hull Number   ASV007

Date   04/20/2018

Dynamic Draft Table

Draft   0
Units   meters

Speed   0
Units   meters/second

Dynamic Draft Table

Draft   0.30
Units   meters

Speed   0.50
Units   meters/second

Dynamic Draft Table

Draft   0.36
Units   meters

Speed   1.00
Units   meters/second

Dynamic Draft Table

Draft   0.38
Units   meters

Speed   1.50
Units   meters/second

Add Dynamic Draft Values

Speed Uncertainty
0.40   Units   meters/second

Draft Uncertainty
0.01   Units   meters

Add Vessel

EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

- Draft
- TPU values
  - OffSets
  - StdDev
- SVP 1
- Waterline Height

	t Y (m)	Offset Z (m)	Vessel Speed (m/s)	Loading (m)	Draft (m)	Delta Draft (m)	MRU Align StdDev gyro
1		0.020	0.400	0.001	0.001	0.010	2.000
2							

NUI

File   Window   Help

Data Acq Processing Report schema vers:2019_01   D:\S-E904-BH2-18_West and Rhode Rivers\F00691\Processed\Reports\Project\DAPR\Report\S-E904-BH2-18_DAPR_Draft.xml

DAPR
- Metadata
- System Equipment And Soft
- System Alignment And Accu
- Data Acquisition And Proces
- Data Quality Management
- Appendices
- Approval Sheet

Metadata | System Equipment And Software | System Alignment And Accuracy | **Data Acquisition And Processing** | Data Quality Management | Appendices | Approval Sheet

Bathymetry | Imagery | Horizontal And Vertical Control | Vessel Positioning | Sound Speed Data | **Uncertainty** | Shoreline And Feature Data | Bottom Sample Data | Other Data

C.6.2 Uncertainty Components

Provide the source(s) of a-priori (HVF) and real-time uncertainty values.

A Priori Uncertainty

◉ Applied   ○ Not Applied

Vessel

Hull Number   ASV007

Motion

Gyro
0.08   Units   degrees ▾

Heave
Percent Amplitude   5.00

Static
0.05   Units   meters ▾

Pitch
0.04   Units   degrees ▾

Roll
0.04   Units   degrees ▾

Navigation

Position
0.50   Units   meters ▾

EchoBoat_PicoMB_2018.hvf -

File   Edit   View   Tools   Help

Select a time for graphical sensor display: 2018-110 00:00 ▾

No 3D data available for display

CARIS HIPS and SIPS Vessel Editor

Pitch
Roll
Draft
TPU values
  OffSets
  StdDev

	Motion Gyro (deg)	Heave % Amp	Heave (m)	Roll (deg)	Pitch (deg)	Position Nav (m)
1	0.080	5.000	0.050	0.040	0.040	0.500
2						