


## Tutorial

# DSHIP land system (v.2)



The screenshot shows the DSHIP Landsystem web interface. On the left is a navigation menu with links to Home, Alkor, Poseidon, Merian S Merian, Meteor, Sonne, Polarstern (AWI), and Heincke (AWI). The main content area features a header image of a research vessel and the title 'DSHIP Landsystem'. Below the title is a list of supported research vessels categorized by institution: GEOMAR (FS Alkor, FS Poseidon), AWI (FS Polarstern, FS Heincke, FS Mya), and BSH (FS Sonne, FS Maria S Merian, FS Meteor). The text explains that the system manages data from various research ships and provides web interfaces for data extraction and documentation. It also mentions that version 2 and 3 of the system have similar functionalities.

**DSHIP Landsystem**

Mit dem Messdatenmanagementsystem **DAVIS-SHIP** werden auf unterschiedlichen Forschungsschiffen systematisch nautische und wissenschaftliche Daten erfasst, aufbereitet und archiviert.

Die Archivdaten der Forschungsschiffe werden in mindestens eines der **DSHIP-Landsysteme** am GEOMAR, beim BSH oder am AWI überführt und stehen über die entsprechenden Web-Interfaces zur Verfügung. Für jedes Forschungsschiff, existieren im Navigationsbereich entsprechende Links, die entweder direkt zur Oberfläche der Datenextraktion, zum Download der extrahierten Daten und zu mit der Datenextraktion relevanten Dokumentation beim Primär-Archiv führen.

- **GEOMAR:**
  - FS Alkor
  - FS Poseidon
- **AWI:**
  - FS Polarstern
  - FS Heincke
  - FS Mya
- **BSH:**
  - FS Sonne
  - FS Maria S Merian
  - FS Meteor

Mittlerweile gibt es für die Forschungsschiffe Archiv-Systeme der Version 2 und der neuen Version 3. Sie unterscheiden sich in der Gestaltung der Web-basierten Benutzeroberfläche, stellen aber die gleichen Funktionalitäten bereit.

**Data/Stationbook bzw. Data und ActionLog Extraction**

Führt zu DSHIP Extraction, über das BenutzerInnen die gewünschten ActionLogs (v.3) bzw. Stationbook (v.2) oder die Parameter der gemessenen Daten und Messzeiträume auswählt und anschließend die Datenextraktion startet.

**Downloads**

Führt zu einer Dateistruktur, in dem die über DSHIP Extraction exportierten Daten vom Landsystem abgelegt werden. Von dort können sie für die Weiterverarbeitung aufgerufen oder lokal gespeichert werden. Für jeden Benutzer, der DSHIP Extraction ausführt, existiert ein Ordner mit dem Benutzernamen, in dem die extrahierten Daten abgelegt sind.

**Data Inventory**

Führt bei v.2 zu einer Übersicht mit dem Data Inventory (v.2), die bei v.3 in der Data und ActionLog Extraction integriert ist.

**Documentation v.X**

Führt zu für die Datenextraktion relevanten Dokumenten mit Informationen zur Installation des DSHIP-Landsystems, des BAPAS-ODBC-Treibers für den direkten Zugriff auf die BAPAS-Datenbanken und zur Bedienung von DSHIP Extraction zur Verfügung.

**GEOMAR**  
Helmholtz Centre for Ocean Research Kiel

**DAVIS** SHIP

**werum**  
SOFTWARE & SYSTEMS

### Contact

#### Data Management

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## Introduction

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Nautical and scientific data on various research vessels are systematically collected, processed and archived with the data management system DAVIS-SHIP (DSHIP).

The archives files of the research vessels are transferred to the DSHIP land system and these data are accessible through a web interface. DSHIP contains tracks, stations and underway measurements from cruises of German research vessels.

For each research vessel there is a corresponding link that leads to the data extraction, to extracted data and to documentation.

### Extraction

The user selects the desired instruments, parameter and measurement periods to start with data extraction.

### Extracted data

The exported data are available under '**Extracted data**' For each user who performs a DSHIP extraction there is a folder with the user name, in which the extracted data is stored.

### Data Inventory

The Data Inventory lists all periods where data archives are available.

### Documentation

Here you can find documents with information about installing the DSHIP Land Systems (BAPAS ODBC driver for direct access to the BAPAS databases).

## 1. Access to the DSHIP land system

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Go to the **GEOMAR DSHIP land system** <http://dship.geomar.de/> to get underway data from RV ALKOR and RV POSEIDON. The data is accessible from the GEOMAR intranet, for external use please contact the GEOMAR data management team [datamanagement@geomar.de](mailto:datamanagement@geomar.de). The GEOMAR DSHIP land system is linked to the **BSH DSHIP land system** <http://dship.bsh.de/> (Bundesamt für Seeschifffahrt und Hydrographie) where underway data from all German research vessels is archived. To get access to the [BSH DSHIP land system](#) please contact [dod@bsh.de](mailto:dod@bsh.de).

For the RV SONNE data is available at GEOMAR from the year 2005 to 2014 only. Data from 2015 on is available from the BSH DSHIP land system.

## 2. Research Vessels

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**RV ALKOR:** The RV ALKOR is a medium sized research vessel. She operates in the North and Baltic Sea as well as in the Kattegat and the Skagerrak.

For information about devices and sensors see:

[http://dship.geomar.de/alkor\\_data/GESODocu/ascii/](http://dship.geomar.de/alkor_data/GESODocu/ascii/)

**RV POSEIDON:** The RV POSEIDON is a medium-sized research vessel that operates primarily in the North Atlantic Ocean and the Mediterranean Sea. The research vessel is available for research cruises in the fields of oceanography, marine biology, and geology.

For information about devices and sensors see:

[http://dship.geomar.de/poseidon\\_data/GESODocu/ascii/](http://dship.geomar.de/poseidon_data/GESODocu/ascii/)

**RV SONNE:** The RV SONNE serves as a research platform for almost all german marine research disciplines. She operates primarily in the Pacific and Indian Oceans.

For information about devices and sensors see:

[http://dship.geomar.de/sonne\\_data/GESODocu/ascii/](http://dship.geomar.de/sonne_data/GESODocu/ascii/)

**RV Maria S. MERIAN:** The RV Maria S. MERIAN operates in the Atlantic, in the North and Baltic Sea. Apart from the RV POLARSTERN it is the only European research vessel that is ready for use in ice.

For information about devices and sensors see:

[http://dship.geomar.de/merian\\_data/GESODocu/ascii/](http://dship.geomar.de/merian_data/GESODocu/ascii/)

**RV METEOR:** The RV METEOR sails several seas, from the Atlantic, the eastern Pacific, and the western Indian Oceans to the Mediterranean and the Baltic Seas. The METEOR provides an interdisciplinary research platform for scientists from numerous research fields, such as maritime meteorology and aerology, physical oceanography, applied physics, marine chemistry, marine botany, zoology, bacteriology and mycology, marine geology, sedimentology, and marine geophysics.

For information about devices and sensors see:

[http://dship.geomar.de/meteor\\_neu\\_data/GESODocu/ascii/](http://dship.geomar.de/meteor_neu_data/GESODocu/ascii/)

### 3. How to use DSHIP

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In this chapter you will find informations about how to extract data from the DSHIP land system. There are archive systems for version 2 and version 3 for the research vessels. They differ in the design of the web-based user interface but provide the same functionalities.

**This tutorial describes the user interface of Dship land system version 2.**

#### 3.1 Data Inventory

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If you click on 'Data Inventory' in the navigation panel of the selected research vessel you will get informations about the available cruises (start/end date and time).

#### 3.2 Data and ActionLog Extraction

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Select your Stationbook or parameters of the data measured. If you click on '**Extraction**' in the navigation panel of the selected research vessel you will get access to the database.

- Fill in your name and mail name
- If you want to create a new order, activate the selection button '**Create new order**'


- If you want to use an existing order, activate the selection button **'Load existing order'**
- If you want to delete an existing extraction order, activate the selection button **'Delete existing orders'**
- When selecting **'Load existing order'** or **'Delete existing orders'** it is also important to select the corresponding data source under **'Select data source'**.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon

## Welcome to DAVIS-Ship - FS Alkor -

### database access

Export V3.0



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**Please enter information to identify the data file**

User name (firstname surname)

Mail name (without Domain)

Create new order

Load existing order

Delete existing orders

**Select data source**

Full data sets

10 minute records

Stationbook records

### 3.2.1 Full DataSets-Extraction

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If the option **'Create new order'** and **'Full data sets'** is selected, the next step is the selection of devices.

- Activate the check box of those devices from which you would like to select the parameters.
- Click on **'submit request'** or click on **'reset request'** if you want to revert your selection.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon



## List of DAVIS-Ship - FS Alkor - devices

Export V3.0



Please select one or more devices

<input type="checkbox"/> DGPS-DEBEG	<input type="checkbox"/> SVT
<input type="checkbox"/> Dolog	<input type="checkbox"/> System
<input type="checkbox"/> EM-Log	<input type="checkbox"/> Thermosalinograph
<input type="checkbox"/> FLRT	<input type="checkbox"/> Transas
<input type="checkbox"/> GPS2-Furuno	<input type="checkbox"/> TSG-Durchfluss
<input type="checkbox"/> Gyro	<input type="checkbox"/> Weatherstation Combimet
<input type="checkbox"/> NavLot	<input type="checkbox"/> Weatherstation DWD
<input type="checkbox"/> Satlog	<input type="checkbox"/> Wempe Clock
<input type="checkbox"/> Sedimentlot	<input type="checkbox"/> Winch
<input type="checkbox"/> Simrad EK60	<input type="checkbox"/> WinchKurrleinen

Submit Request

Reset Request

The following list displays all the sensors of the previously selected devices. Depending on the selected device, several sensors are available for selection.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon



## List of DAVIS-Ship - FS Alkor - sensors

Export V3.0



Please select one or more sensors

DGPS-DEBEG			
<input type="checkbox"/> Age of Differential GPS data	Output format: Real	Field width: 8	Precision: 1
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Min <input type="checkbox"/> Max			<input type="checkbox"/> Value validity
<input type="checkbox"/> Altitude re [m]	Output format: Real	Field width: 8	Precision: 1
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Min <input type="checkbox"/> Max			<input type="checkbox"/> Value validity
<input type="checkbox"/> Course [deg]	Output format: Real	Field width: 7	Precision: 1
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Min <input type="checkbox"/> Max			<input type="checkbox"/> Value validity
<input type="checkbox"/> Date	Output format: Text	Field width: 12	
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot			<input type="checkbox"/> Value validity
<input type="checkbox"/> Day	Output format: Integer	Field width: 2	Precision: 0
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Min <input type="checkbox"/> Max			<input type="checkbox"/> Value validity
<input type="checkbox"/> Differential reference station ID	Output format: Integer	Field width: 4	Precision: 0
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Min <input type="checkbox"/> Max			<input type="checkbox"/> Value validity
<input type="checkbox"/> GPS Quality indicator	Output format: Integer	Field width: 1	Precision: 0
<input type="checkbox"/> Samples <input checked="" type="checkbox"/> Spot <input type="checkbox"/> Min <input type="checkbox"/> Max			<input type="checkbox"/> Value validity

## Output format

Select the sensors you want to export by clicking the check box in front of the sensor name. The **output format** specifies the format of the generated data.

<b>Real</b>	Number with decimal digits
<b>Integer</b>	Number without decimal digits
<b>Text</b>	ASCII character
<b>Position lat</b>	Latitude position with Deg Min, decimalMin N/S
<b>Position lon</b>	Longitude position with Deg Min, decimalMin E/W
<b>Position deg</b>	Position with +/-Deg, decimalDeg (- for south and west)
<b>Field width</b>	Number of possible output characters
<b>Precision</b>	Accuracy, number of floating points

The default output format has been configured by the administrator. Please note that not all combinations of sensor, output format and field width make sense. 'Field width' specifies the length of the whole output column including both, decimal symbol and precision. With the precision input field you enter the number of decimal digits.

## Samples

The second line of each sensor item has check boxes for statistical information about the data. Each of them will generate an additional column in the output file.

<b>Samples</b>	Number of valid samples within the interval
<b>Spot</b>	First sample (valid) of the interval
<b>Min</b>	Minimum value (valid) of the interval
<b>Max</b>	Maximum value (valid) of the interval
<b>Mean</b>	Average over all valid samples
<b>Variance</b>	Variance of all valid samples
<b>Std dev</b>	Standard deviation of all valid samples
<b>Value valid</b>	Validity of the calculated values (V-Valid / I-Invalid)
<b>Mean valid</b>	Validity of the calculated average (V-Valid / I-Invalid)

## Determine the output order

Determine the columns order by placing the corresponding numbers in the input fields.


- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon

# DAVIS

| SHIP

## Column sequence

Export V3.0



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The column-order follows the numbers in this list:

1	DGPS-DEBEG	Age of Differential GPS data
2	DGPS-DEBEG	Course
3	DGPS-DEBEG	Date
4	DGPS-DEBEG	Day
5	DGPS-DEBEG	Differential reference station ID
6	DGPS-DEBEG	GPS Quality indicator
7	Sedimentlot	Depth
8	Thermosalinograph	Density
9	Thermosalinograph	Salinity
10	Thermosalinograph	Soundvelocity

## Specify extraction parameter


- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon

# DAVIS

| SHIP

## List of DAVIS-Ship - FS Alkor - parameters

Export V3.0



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Please enter additional information for the extraction file

<p style="text-align: center;"><b>Time/date of export</b></p> <p><u>Start date/time</u> <input type="text" value="06.06.2016 11:00:00"/></p> <p><u>End date/time</u> <input type="text" value="06.06.2016 12:00:00"/></p> <p><u>Duration [s]</u> <input type="text" value="3600"/></p> <p><u>Interval</u> <input type="text" value="60"/> [s] <input type="button" value="v"/></p> <p>Selected extraction takes (approx.) <input type="text" value="5 s"/></p>	<p style="text-align: center;"><b>Result</b></p> <p><u>File name</u> <input type="text" value="DataanWVSO"/></p> <p><u>User name</u> <input type="text"/></p> <p><u>Mail address</u> <input type="text"/></p> <p><u>Get mail</u> <input type="checkbox"/></p>
<p style="text-align: center;"><b>File format</b></p> <p><u>Separator</u> <input type="text" value="Tabulator"/></p> <p><u>End of record marker</u> <input type="text" value="New line"/></p> <p><u>Date / time format</u> <input type="text" value="YYYY/MM/DD*HH:mm:ss"/></p> <p>* = Separator</p> <p><u>Decimal symbol</u> <input type="text" value="."/></p> <p><u>Header row</u> <input checked="" type="checkbox"/></p> <p><u>Max. data file size</u> <input type="text" value="0"/> MByte <input checked="" type="checkbox"/> unlimited</p>	<p style="text-align: center;"><b>Error/invalid value pattern</b></p> <p><u>Error value numeric</u> <input type="text" value="9"/></p> <p><u>Error value alphanumeric</u> <input type="text" value="Blank"/></p> <p><u>Error value position</u> <input type="text" value="Blank"/></p> <p><u>Include invalid values</u> <input type="checkbox"/></p> <p><u>Skip invalid lines</u> <input type="checkbox"/></p> <p><u>Fit to format</u> <input type="checkbox"/></p> <hr/> <p><u>Save order</u> <input type="checkbox"/> as <input type="text" value="SaveDataanWVSO"/></p>



The following briefly explains the meaning of the input-fields:

### **Separator**

The 'separator' is inserted between the individual values extracted for one point of time.

### **End of record marker**

The 'end of record marker' separates the single export steps representing one point of time.

### **Error values**

The 'error values' are used to indicate missing or invalid data. It is possible to define different values for figures, positions and text.

### **Include invalid values**

If 'show invalid values' is selected, Export will use these invalid values instead of error values.

### **Skip invalid lines**

If 'skip invalid lines' is selected, lines of data containing only invalid values are skipped.

### **Fit to format**

If 'fit to format' is selected, Export fills up the output format with leading blanks.

### **Start date/time**

'Start date/time' is the start date and time of the request. The string must have the format "DD.MM.YYYY HH:mm:ss".

### **End date/time**

'End date/time' is the end date and time of the request. The string must have the format "DD.MM.YYYY HH:mm:ss".

### **Duration**

As an alternative to the 'end date/time' you may specify the 'duration'. The duration calculates the end date/time of the request in seconds from the start data/time. If end date/time is specified, it will be adopted.

### **Interval**

'Interval' is the gap in time between two data lines. You may specify this gap in hours ('[h]'), minutes ('[min]'), seconds ('[s]') and milliseconds ('[ms]'). If you choose [ms], only 50, 100, 200 or any value divisible by 1000 are permissible values.

The larger the interval you choose the longer takes the extraction. Please have a look at the value displayed in the field below: 'Selected extraction takes (approx.)' ...

### **File name**

'File name' is the prefix of the output files. Use a speaking name, e.g. AL477 to be able to find your data when making several orders. The generated files have these extensions:

.dat	Extracted data
.log	Extracted log-entries (only for full data sets)
.sys	Notifications resp. errors from the extraction process
.txt	Generic description of the processed order

### Decimal Symbol

You can choose between the German and the English decimal-symbols, ',' and '.'.

### Header row

If 'Header row' is selected, Export produces lines at the top of the data file containing the sensor and device names.

### Max. data file size

The 'max. data file size' is the maximum size (in Mega Bytes) a data file may have. The system generates new files, if necessary. The files will then be numbered. The minimum is 1 and only integers are allowed.

Entering 0 is equal to checking 'unlimited'. In this case, no limit for the file size is taken into account.

### Get mail

If 'Get mail' is selected, an e-mail is sent on completion of the export. Make sure you entered a valid email address.

### User name

The 'user name' has to be your full name.

### Mail address

The 'mail address' has to be your complete e-mail address.

### Date / time format

You may choose the 'date / time format' from the following defaults. Please note that the asterisk (\*) represents the separator.

YYYY*MM*DD*HH*mm*ss	year*month*day*hour*minute*second
YYYY*ddd*HH*mm*ss	year*julian days*hour*minute*second
YYYY/MM/DD*HH:mm:ss	year/month/day*hour:minute:second
DD.MM.YYYY*HH:mm:ss	day.month.year*hour:minute:second
YYYY*MM*DD	year*month*day
YYYY*ddd	year*julian days

YYYY/MM/DD	year/month/day
DD.MM.YYYY	day.month.year
HH*mm*ss	hour*minute*second
HH:mm:ss	hour:minute:second
Seconds since 1970	Time in seconds since 01.01.1970 00:00:00
None	No time / date column in the output file

### Order confirmation

Finally, the user gets the message with the link to the directory where the results are stored. Click on the link if you want to download the extracted files.

You'll also receive an info e-mail about a successfully executed extraction job. The e-mail will include the following informations:

```
Your order was performed successfully.
```

```
The results are available at:
```

```
Location: http://DSHIP\_Admin/results/tuser
Datafile: user_order_1.dat
Logfile: user_order_1.log
Inventory: user_order_1.txt
Systemdata: user_order_1.sys
```

### 3.2.2 10 minute records - Extraction


The procedure for the extraction is similar to the 'Full data sets' extraction. Click the option 'Create new order' or Load existing order and '10 minutes records'.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon

**Welcome to  
DAVIS-Ship  
- FS Alkor -**

**database access**

Export V3.0



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Please enter information to identify the data file

User name (firstname surname)

Mail name (without Domain)

Create new order

Load existing order


Delete existing orders

**Select data source**

Full data sets     10 minute records     Stationbook records


The devices and sensors for the 10-minute sets are configured by the administrator. Therefore, the separate selection of the devices and sensors is not available, but the list of sensors is immediately available. Select the desired sensors and its values and output formats.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon



## List of DAVIS-Ship - FS Alkor - 10MinRec-sensors

Export V3.0



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Please select one or more sensors

General

**Position Lat**      Output format Position Lat      Field width  Precision

**Position Lon**      Output format Position Lon      Field width  Precision

DGPS-DEBEG

**Course [deg]**      Output format Real      Field width  Precision

Samples     Spot     Min     Max     Average     Variance     Std Dev     Value validity

**Latitude**      Output format Real      Field width  Precision

Samples     Spot     Min     Max     Average     Variance     Std Dev     Value validity

**Longitude**      Output format Real      Field width  Precision


Samples     Spot     Min     Max     Average     Variance     Std Dev     Value validity

**Speed over ground [kn]**      Output format Real      Field width  Precision

Samples     Spot     Min     Max     Average     Variance     Std Dev     Value validity


As with the full data sets you can define the column order. If you want to make the data selection based on geographical position, you have the possibility to activate **'Select range by position'**.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon



## DAVIS-Ship - FS Alkor - : 10MinRec-sensor column sequence

Export V3.0



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The column-order follows the numbers in this list:

1	Position Lat	General
2	Position Lon	General
3	Latitude	GPS2-Furuno
4	Salinity	Thermosalinograph
5	Temperature extern	Thermosalinograph
6	Air pressure Bb	Weatherstation Combimet
7	Air temperature Bb	Weatherstation Combimet
8	Water temperature	Weatherstation DWD

Please select method for determining extraction-range:

Select range by time  
 Select range by position

If the default option 'Select range by time' has been selected, you can skip the following section.

### Select range by position

A rectangle can be defined by two coordinate points. The system then determines all routes from the database that pass through this square. The individual routes are then displayed as a list on the next page. In the field of the 'top-left corner of rectangle' fill in the coordinates of the upper left vertex and in the field 'bottom-right corner of rectangle' fill in the coordinates for the right vertex at the bottom.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon

## DAVIS-SHIP

### DAVIS-Ship - FS Alkor -

#### : Select range by positions

Export V3.0

---

Please enter positions to search for 10MinRecords:

**Top-left corner of rectangle:**

Latitude	Longitude
0 ° 0.00 ' <input checked="" type="radio"/> N <input type="radio"/> S	0 ° 0.00 ' <input checked="" type="radio"/> W <input type="radio"/> E

X

selected rectangle

X

**Bottom-right corner of rectangle:**

Latitude	Longitude
0 ° 0.00 ' <input checked="" type="radio"/> N <input type="radio"/> S	0 ° 0.00 ' <input checked="" type="radio"/> W <input type="radio"/> E

Select one route by clicking on the appropriate radio button from the desired route.

- ▶ Home
- ▼ FS Alkor
  - ▶ Data Inventory
  - ▶ Extraktion
  - ▶ Extrahierte Daten
  - ▶ Dokumentation
- ▶ FS Sonne
- ▶ FS Merian
- ▶ FS Meteor\_Neu
- ▶ FS Poseidon

## DAVIS-SHIP

### DAVIS-Ship - FS Alkor -

#### : Select range for 10MinRecs by positions

Export V3.0


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Please select a route:

	Start: Time	Latitude	Longitude
<input checked="" type="radio"/>	Start: 09.02.2013 08:30:00 End: 09.02.2013 11:30:00	55° 00.215683' N	17° 0.05495162' E
<input type="radio"/>	Start: 13.02.2013 06:20:00 End: 13.02.2013 11:40:00	55° 0.4651727' N	17° 0.1036884' E
<input type="radio"/>	Start: 16.04.2013 16:40:00 End: 16.04.2013 20:00:00	55° 0.2502984' N	17° 0.08731135' E
<input type="radio"/>	Start: 17.04.2013 19:40:00	55° 0.4585782' N	17° 0.7932592' E


The selection of the extraction parameters is almost identical to those of the already described **'Full data sets'** extraction.

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- ▶ FS Poseidon



## DAVIS-Ship - FS Alkor - 10MinRec Extraction

Export V3.0



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**Please enter additional information about the extraction file:**

<p style="text-align: center; margin: 0;"><b>Time/date of export</b></p> <p><u>Start date/time</u> <input type="text" value="09.02.2013 08:30:00"/></p> <p><u>End date/time</u> <input type="text" value="09.02.2013 11:30:00"/></p> <p><u>Duration [s]</u> <input type="text" value="10800"/></p> <p><u>Interval</u> <input type="text" value="10 min"/></p> <p>Selected extraction takes (approx.) <input type="text" value="5 s"/></p>	<p style="text-align: center; margin: 0;"><b>Result</b></p> <p><u>File name</u> <input type="text" value="Alkor Route "/></p> <p><u>User name</u> <input type="text" value="test user"/></p> <p><u>Mail address</u> <input type="text" value="tuser@geomar.de"/></p> <p><u>Get mail</u> <input type="checkbox"/></p>
<p style="text-align: center; margin: 0;"><b>File format</b></p> <p><u>Separator</u> <input type="text" value="Tabulator"/></p> <p><u>End of record marker</u> <input type="text" value="New line"/></p> <p><u>Date / time format</u> <input type="text" value="YYYY/MM/DD*HH:mm:ss"/></p> <p style="margin-left: 20px;">* = Separator</p> <p><u>Decimal symbol</u> <input type="text" value="."/></p> <p><u>Header row</u> <input checked="" type="checkbox"/></p> <p><u>Max. data file size</u> <input type="text" value="0"/> Byte <input checked="" type="checkbox"/> unlimited</p>	<p style="text-align: center; margin: 0;"><b>Error/invalid value pattern</b></p> <p><u>Error value numeric</u> <input type="text" value="9"/></p> <p><u>Error value alphanumeric</u> <input type="text" value="Blank"/></p> <p><u>Error value position</u> <input type="text" value="Blank"/></p> <p><u>Include invalid values</u> <input type="checkbox"/></p> <p><u>Skip invalid lines</u> <input type="checkbox"/></p> <p><u>Fit to format</u> <input type="checkbox"/></p> <hr/> <p>Save order <input type="checkbox"/> as <input type="text" value="SaveDataY0vHBZ"/></p>

### Order confirmation

The order confirmation of the **'10 minute records'** is similar to the **'Full data sets'** extraction.

### N.B.

There is no warranty for the correctness of the data extracted. There is no quality control applied to the data.

This Tutorial is adopted from **Werum Software & Systems (2005): DAVIS-SHIP Extraction. Version 3.41**. URL: [http://dship.geomar.de/docu/Extraction/pdf/DAVIS-SHIP\\_Extraction\\_D.pdf](http://dship.geomar.de/docu/Extraction/pdf/DAVIS-SHIP_Extraction_D.pdf)

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