



The University of Southern Mississippi Department of Marine Science
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**ENC PILOT WORK – ASL OBJECTS
 ECDIS DISPLAY (Version 2)**

**Sperry Marine VMS-VT Version 7.6.636
 SevenCs Presentation Library v3.2.2 22/10/2001**

No report of any problems installing cell in VMS.

VMS Chart Legend

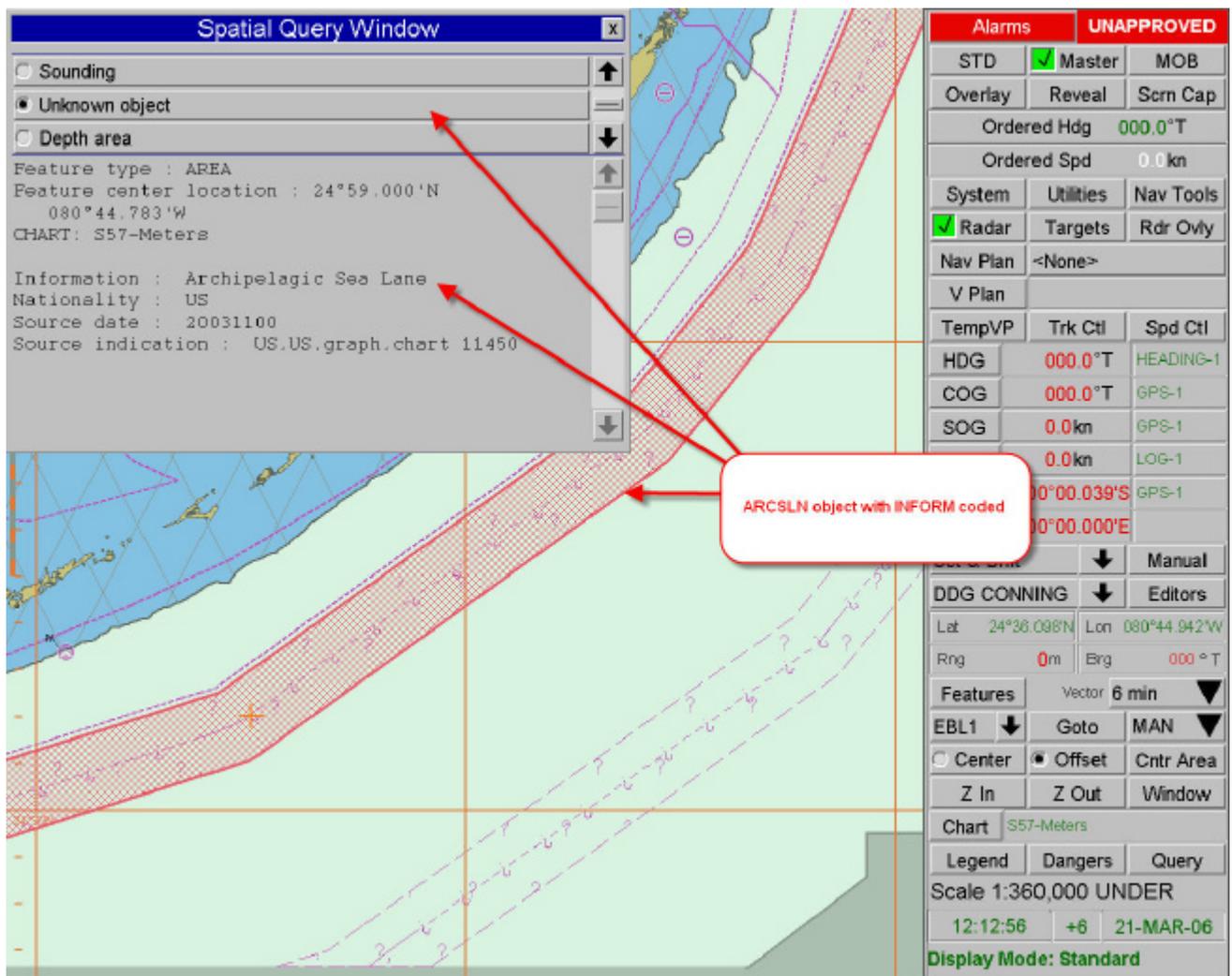
The screenshot displays the ECDIS interface. On the left, a 'Chart Legend' window is open, showing the following details:

- Name :
- Number : Meters
- Component Name : US3FL28M.7CB
- Data Provided by : US
- Default Scale : 1:180,000
- Nav Purpose : COASTAL
- Edition Date : 01-MAR-2006
- Update Date : 14-OCT-2005
- Update Number : 0
- Last Notice To Mariner : Unknown
- Edition : 3
- Volume : Unknown
- Projection : Mercator
- Horizontal datum : World Geodetic System 1984
- WGS84 Shift : 00°00.000'N, 000°00.000'E
- Vertical Datum : Mean High Water
- Sounding Datum : Mean Lower Low Water
- Magnetic Variation : Unknown
- Safety Depth : 5 Meters
- Safety Contour : 5.4 Meters
- Data Quality Zone(s) of Confidence : U (unassessed)
- Display Depth Units : Meters
- Display Height Units : Meters
- Data Format : S57
- Data Format Version : 3.1
- GeoSym Version : 4
- Display unit set name : None

At the bottom of the legend window are buttons for 'Chart Notes' and 'Raster Notes'. The background shows a map with depth contours and a red circle highlighting a specific area. On the right, a control panel is visible with the following settings:

- Alarms** (UNAPPROVED)
- STD: Master, MOB
- Overlay: Reveal, Scrn Cap
- Ordered Hdg: 000.0°T
- Ordered Spd: 0.0 kn
- System: Utilities, Nav Tools
- Radar, Targets, Rdr Ovl
- Nav Plan: <-None>
- V Plan
- TempVP, Trk Ctl, Spd Ctl
- HDG: 000.0°T, HEADING-1
- COG: 000.0°T, GPS-1
- SOG: 0.0 kn, GPS-1
- STW: 0.0 kn, LOG-1
- POS: 00°00.039'S, GPS-1
- 000°00.000'E
- Set & Drift: Manual
- DDG CONNING: Editors
- Lat: 25°13.004N, Lon: 080°21.904'W
- Rng: 0 m, Brg: 000° T
- Features: Vector 6 min
- EBL1: Goto MAN
- Center, Offset, Cntr Area
- Z In, Z Out, Window
- Chart: S57-Meters
- Legend, Dangers, Query
- Scale: 1:360,000 UNDER
- 12:59:26 +6 21-MAR-06
- Display Mode: Standard

The ARCSLN area object displayed with limit line and question marks. Object name displayed as “unknown object”, no problem displaying object attributes.



The ASLXLN line object displayed with question marks. Object name displayed as “unknown object”, no problem displaying object attributes.

The screenshot displays a maritime navigation software interface. On the left, a **Spatial Query Window** is open, showing the following details for an 'Unknown object':

- Feature type : LINE
- Feature center location : 24°35.368'N 080°46.131'W
- CHART: S57-Meters
- Information : Archipelagic Sea Lane Axis Line
- Nationality : US
- Source date : 20031100
- Source indication : US.US.graph.chart 11450

The central map shows a red line representing the ASLXLN object, with several question marks along its path. A red callout box points to this line with the text: **ASLXLN object with INFORM coded**.

On the right, a control panel is visible, featuring an **Alarms** section with a red **UNAPPROVED** header. The Alarms section includes:

- STD: Master, MOB
- Overlay: Reveal, Scrn Cap
- Ordered Hdg: 000.0°T
- Ordered Spd: 0.0 kn

Below the Alarms section, there are various system and navigation controls, including:

- System: Utilities, Nav Tools
- Radar, Targets, Rdr Ovly
- Nav Plan: <None>
- V Plan
- TempVP, Trk Ctl, Spd Ctl
- HDG: 000.0°T, HEADING-1
- COG: 000.0°T, GPS-1
- SOG: 0.0kn, GPS-1
- SPN: 0.0kn, LOG-1
- S: GPS-1
- E

At the bottom of the control panel, there are additional settings:

- Set & Drift: Manual
- DDG CONNING: Editors
- Lat: 24°35.428'N, Lon: 080°46.345'W
- Rng: 0m, Erg: 000°T
- Features: Vector 6 min
- EBL1: Goto MAN
- Center, Offset, Cntr Area
- Z In, Z Out, Window
- Chart: S57-Meters
- Legend, Dangers, Query
- Scale 1:360,000 UNDER
- 12:49:17 +6 21-MAR-06
- Display Mode: Standard

RESARE object displayed accordingly. CATREA displayed as "28".

The screenshot displays a navigation software interface. On the left, a 'Spatial Query Window' is open, showing a list of objects with 'Restricted area' selected. Below the list, detailed information for object '28' is displayed, including its category, information, restriction, scale, source date, and source indication. The main map area shows a coastal region with various navigational boundaries and a red hatched area. A red callout box points to the 'Restricted area' entry in the list and the corresponding area on the map, containing the text 'RESARE object displaying CATREA = 28'. On the right, a control panel is visible, featuring an 'Alarms' section with 'UNAPPROVED' status, a 'System' section with 'Radar' checked, and various navigation parameters like 'Ordered Hdg', 'Ordered Spd', 'TempVP', 'Trk Ctl', and 'Spd Ctl'. The bottom of the control panel shows the current position (00°00.039'S, 000°00.000'E), scale (1:360,000 UNDER), and display mode (Standard).

Spatial Query Window

- Navigational system of marks
- Restricted area
- Restricted area

CHART: S57-Meters

Category of restricted area : 28
Information : Entry restricted; Particularly Sensitive Sea Area. A PSSA is an environmentally sensitive area around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.
Restriction : entry restricted
Scale minimum : 500000
Source date : 20031100
Source indication : US.US.graph.chart 11450

Alarms UNAPPROVED

STD	<input checked="" type="checkbox"/> Master	MOB
Overlay	Reveal	Scrn Cap
Ordered Hdg	000.0°T	
Ordered Spd	0.0 kn	
System	Utilities	Nav Tools
<input checked="" type="checkbox"/> Radar	Targets	Rdr Ovly
Nav Plan	<None>	
V Plan		
TempVP	Trk Ctl	Spd Ctl
HDG	000.0°T	HEADING-1
		GPS-1
		GPS-1
		LOG-1
		GPS-1

POS 00°00.039'S
000°00.000'E

Set & Drift ↓ Manual
DDG CONNING ↓ Editors
Lat 24°57.862N Lon 080°18.385W
Rng 0m Erg 000°T

Features Vector 6 min ▼
EBL1 ↓ Goto MAN ▼
 Center Offset Cntr Area
Z In Z Out Window

Chart S57-Meters
Legend Dangers Query
Scale 1:360,000 UNDER
12:45:26 +6 21-MAR-06
Display Mode: Standard

Raytheon Pathfinder/ST ECDIS Version E02.06

Presentation Library v3.2.0

See [Pathfinder reports\US3FL28M.L00](#) for errors reported installing this cell. File can be open in any text editor.

Pathfinder ECDIS chart legend

The screenshot displays the Raytheon Pathfinder/ST ECDIS software interface. A 'Legend' window is open, showing the following configuration:

Depth Units:	Meters	Edition Number:	3
Height Units:	Meters	Update Number:	0
Sounding Datum:	Mean lower low water	Source ID Code:	US3FL28M.000
Vertical Datum:	Mean high water	Bathymetric Quality:	
Horizontal Datum:	WGS-84	Non-Bathymetric:	0.00000
Edition Date:	Mar 01, 2006	Default Scale:	1:100000
Update Date:	Mar 21, 2006	Projection:	MERCATOR
Safety Contour:	10.00000	Magnetic Variation:	000
Safety Depth:	10.00000	Presentation Library:	SS2 Version 3.2.0.0

The main chart area shows a coastal navigation chart with depth soundings, navigational aids, and a red crosshair. The right-hand side of the interface contains several data panels:

- Chart Name:** US 567 : coastal
- View Scale:** 1:130 113, 17.7 NM over
- Chart Scale:** 1:100 000, 24.5 NM
- Other Disp:**
- Steering Mode:** Manual
- Position:** N 32 37.735, W 117 09.699
- CMG:** deg
- Speed/WT:** kt
- Speed BT:** kt
- Wind line:** deg
- Crit:** deg
- Depth:** m
- CTS:** deg
- Heading:** deg
- Speed:** 0 to 30 kt
- Engine:** 0 to 160 rpm
- Turnrate:** 0 to 90 °/min
- Rudder:** 0 to 40 °
- Pri Rte:**
- Sec Rte:**
- XTD:** m
- Waypoint To:**
- Track Crs:** deg
- Distance:** NM
- Radius:** NM
- Time To Go:** h:m:mm

The status bar at the bottom shows: CURSOR: N 25°33.474' W 079°59.099', 1993NM 102.3° TTG: ---, Center Chart: N 25° 28.926' W 080° 06.045'

No limit or question marks were displayed for ARCSLN area object. Object name displayed as “unkobj - unknown object”, no problem displaying object attributes.

The screenshot displays a marine navigation software interface. On the left, an 'Object Info' window is open, showing a tree view of object types and their attributes. The 'unkobj - Unknown object' is selected, and its attributes are listed in the right pane:

INFORM - Information	Archipelagic Sea Lane
NATION - Nationality	US
SORDAT - Source date	11/1/2003 0:00:00 AM
SORIND - Source indication	US,US_graph,chart 11450
	-54000
	161

The main map area shows a coastal region with various navigational symbols and depth contours. A red arrow points from the 'unkobj' entry in the 'Object Info' window to a specific area on the map. A red callout box with the text 'Object ARCSLN with INFORM code d. Area Limits are not displayed' is positioned over this area. The right side of the interface features a control panel with various gauges and settings, including Chart Name (US 567 : caashl), View Scale (1:130 113), Chart Scale (1:180 000), Steering Mode (Manual), Position (N 32 37.735, W 117 09.693), and various speed and heading indicators.

CURSOR: N 25°28.567' W 080°00.284' 1994NM 102.4° TTG: --- Center Chart: N 25° 28.926' W 080° 06.045'

No line or question marks were displayed for ASLXLN line object. Object name displayed as “unkobj - unknown object”, no problem displaying object attributes.

The screenshot displays a nautical chart software interface. On the left, an 'Object Info' window is open, showing a tree view of object types and their attributes. The selected object is 'unkobj - Unknown object'. The attributes listed are:

- INFORM - Information
- Archipelagic Sea Lane Axis Line
- NATION - Nationality
- US
- SORDAT - Source date
- 11/1/2003 8:00:00 AM
- SORIND - Source indication
- US,US.graph_chart 11450
- 54000
- 162

The main map area shows a nautical chart with a highlighted line object. A red callout box points to this object with the text: "Object ASLXLN with INFORM code d. Line does not display". The right side of the interface features a control panel with various settings and gauges, including:

- Chart Name: US 957 : coastal
- View Scale: 1:100 113 17.7 NM over
- Chart Scale: 1:180 000 24.5 NM
- Other Dep: []
- Steering Mode: Manual
- Position: N 32 37.736, W 117 09.698
- Speed WT, Speed BT, Wind True, Drift, Depth, CTS, Heading, Speed, Engine, Turnrate, Rudder, Pri Rte, Det Rte, XTD, Track, Waypoint To, Distance, Radius, TimeToGo.

At the bottom of the interface, the cursor coordinates are shown as CURSOR: N 25°27.567' W 080°00.139' and the center chart coordinates as Center Chart: N 25° 28.926' W 080° 06.046'.

RESARE displayed accordingly. CATREA displayed as unknown.

The screenshot displays a marine navigation software interface. At the top left, an 'Object Info' window is open, showing details for a selected object. The 'Category of restricted area' is listed as '<unknown>'. A red arrow points from this text to a callout box on the map. The callout box contains the text 'Object RESARE, CATREA = unknown'. The map below shows a coastal area with various navigational symbols, including a red crosshair and several red circles. The right side of the interface features a control panel with various settings and displays, including 'Chart Name: US 567 : coastal', 'View Scale: 1:130 113 17.7 NM over', 'Chart Scale: 1:100 000 24.5 NM', 'Steering Mode: Manual', 'Position: N 32 37.735 W 117 09.699', 'CMG', 'Speed WT', 'Speed BT', 'Wind Wave', 'Drift', 'Depth', 'CTS', 'Heading', 'Speed', 'Turnrate *min', 'Engine', 'Rudder', 'XTD', 'Waypoint To', 'Track Crs', 'Distance', 'Radius', and 'Time To Go'. The bottom status bar shows 'CURSOR: N 25°28.832' W 080°09.623' 1986NM 102.5° TTG: --- Center Chart: N 25° 28.926' W 080° 06.045'.

Offshore Systems ECPINS-W Presentation Library v3.3

Version 5.0.4

See ECPINS-reports/stdout.log for warnings reported installing this cell.

ECPINS chart legend

The screenshot displays the ECPINS software interface. On the left, a legend lists various parameters and their values, mostly marked as 'N/A'. The main area shows a map of the Fawcay Rocks to American Shoal area with a chart information panel overlaid. The panel provides detailed metadata for the chart, including issue dates, update numbers, and a history of updates with actions like 'INSTALLED' and 'WARNING'.

Parameter	Value
Hdg: (HDG1)	N/A
CMG:	N/A
SMG:	N/A
Lat:	N/A
Lon:	N/A
(POST)	
EBL:	
Brg:	N/A
Rng:	N/A
Lat:	N/A
Lon:	N/A
XTD:	N/A
TTG:	N/A
Route:	N/A
WP Brg:	N/A
Crs/CTM:	N/A
DTG:	N/A
Dest ETA:	N/A
Next Crs:	N/A
Cursor:	N/A
Brg:	N/A

Chart Information Panel

- Issue Date: 2006 Mar 01
- Base Cell Update Number: 0
- Base Cell Update Date: 2005 Oct 14
- Current to Update Number: 0
- Update Issue Date: N/A
- SENC Generated on: 2006 Mar 21 17:30 UTC
- Depth Units: Metres
- Height Units: Metres
- Horizontal Datum: US84
- Chart Projection: Equidistant Cylindrical
- Vertical Datum: Mean high water
- Sounding Datum: Mean lower low water
- Producer: USA, Office of Coast Survey
- Comment: STEB:3.1.1;

Update History:

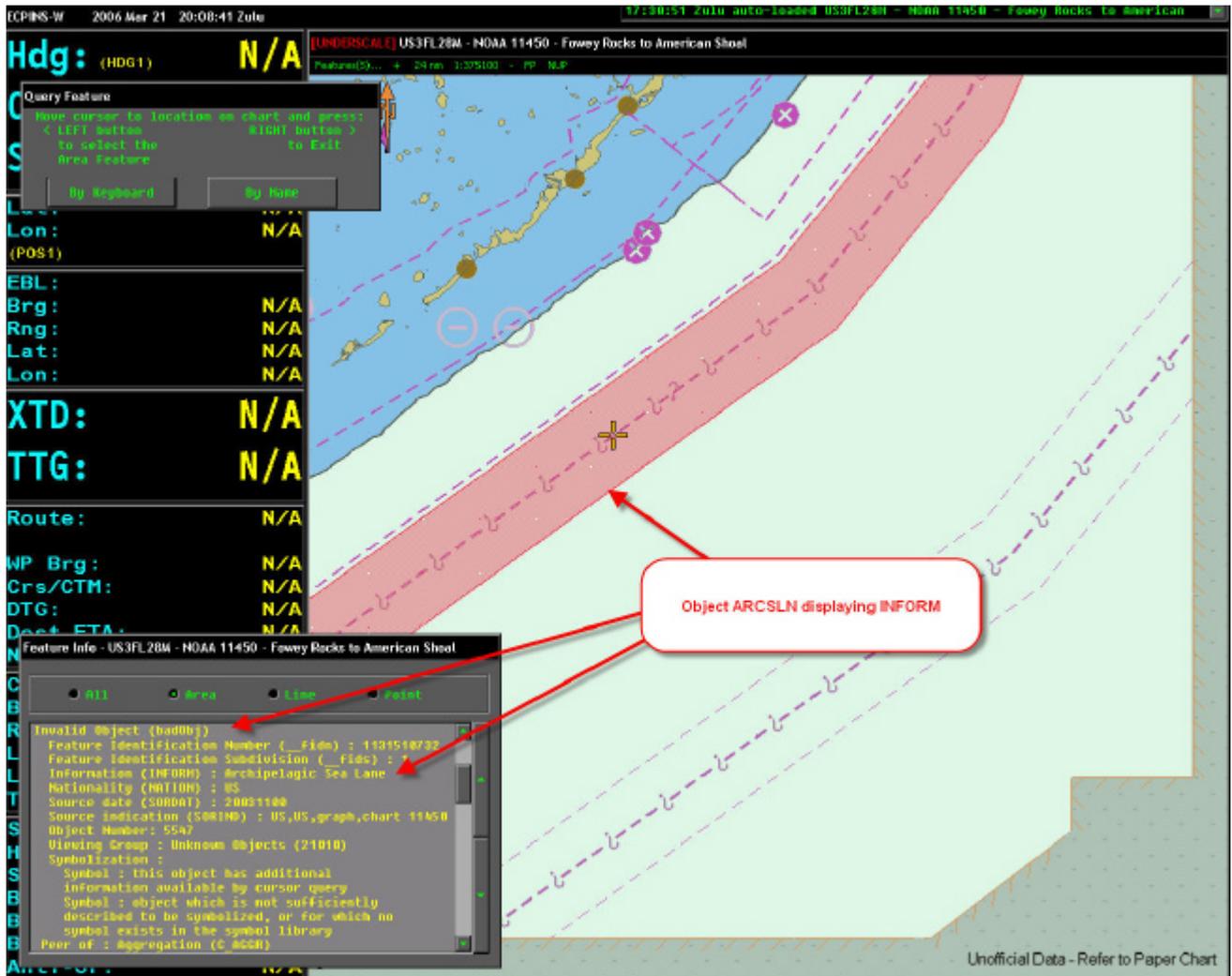
Date Applied	Action
2006 Mar 21 17:29 UTC	INSTALLED
2006 Mar 21 17:30 UTC	WARNING Illegal feature object(s)
2006 Mar 21 17:30 UTC	WARNING Illegal feature attribute(s)

Loaded charts:

- US84011N
- US84011N
- US84012N
- US84012S
- US84012C
- NINA US84011N_1 - Pearl River North
- NINA US84011S_1 - Pearl River South
- US84011N - NOAA 11347 - Galveston River and Lake Side A
- US84011E
- US84011N - NOAA 11450 - Fawcay Rocks to American Shoal

Unofficial Data - Refer to Paper Chart

The ARCSLN area object displayed with limit line and question mark. In the feature information panel the object name was displayed as “Invalid Object (badobj)”. No problem displaying the object attributes.



The ASLXLN line object displayed with question marks. In the feature information panel the object name was displayed as “Invalid Object (badobj)”. No problem displaying the object attributes.

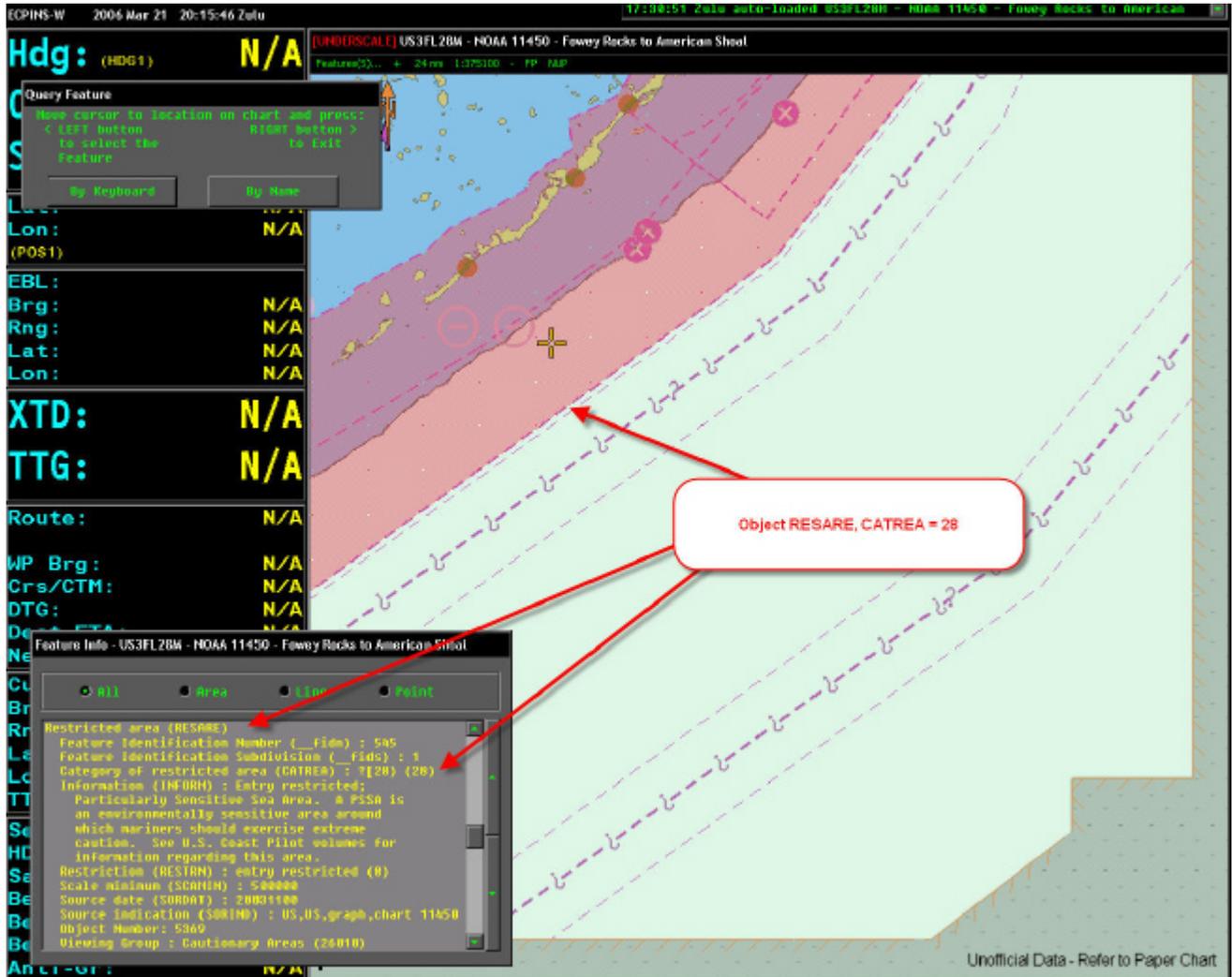
The screenshot shows a maritime charting application interface. At the top, the title bar reads "ECPINS-W 2006 Mar 21 20:12:03 Zulu" and "17:20:51 Zulu auto-loaded US3FL28M - NOAA 11450 - Fowey Rocks to American Shoal". The main map area displays a coastal region with various navigational lines, including a prominent red line with a question mark symbol. A "Query Feature" dialog box is open, providing instructions on how to interact with the chart. On the left side, a vertical list of data fields is shown, with most values being "N/A". At the bottom left, a "Feature Info" panel is open, displaying the following information:

```

Feature Info - US3FL28M - NOAA 11450 - Fowey Rocks to American Shoal
  ● All ● Area ● Line ● Point
  Invalid Object (badobj)
  Feature Identification Number ( _ fidn ): 1131510684
  Feature Identification Subdivision ( _ fids ): 1
  Information (INFORM) : Archipelagic Sea Lane Axis Line
  Nationality (NATIDN) : US
  Source date (SORDAT) : 20021108
  Source indication (SORIND) : US,US_graph,chart 11450
  Object Number : 5546
  Blending Group : Unknown Objects (21010)
  Symbolization :
  Symbol : this object has additional information available by cursor query
  Line : object which is not sufficiently described to be symbolized, or for which no symbol exists in the symbol library
  
```

A red callout box with a white background and black border points to the red line on the map, containing the text "Object ASLXLN displaying INFORM". The bottom right corner of the map area contains the text "Unofficial Data - Refer to Paper Chart".

RESARE object displayed accordingly. Attribute for CATREA displayed as ?(28) (28).



Transas NavSailor 3000-I Version 4.00.05

Presentation Library v3.3 March 2004

See [Navisailor reports\US3FL28M.lst](#) for errors reported installing this cell. File can be open in any text editor.

NaviSailor chart legend

The screenshot displays the NaviSailor software interface. The main window shows a nautical chart with various navigational symbols and depth contours. On the right side, there is a data panel with the following information:

- ARPA-A** and **AIS** tabs are active.
- ALARM**: No new alarms
- Position Dropped**
- Ship**: 21 - 03 - 06, 00:00, 21 : 28 : 39
- Primary**: 29° 53.449 N, 090° 24.165 W
- Sec:** None
- COG**: 263.0°
- SOG**: 950.0 kt
- HDG-u**: (blank)
- LOG**: (blank)
- us3fl28m**: Autoload ON
- 1 : 500,000**: Man. Corr.
- System Information** section:
 - Drift: No data
 - Current: 286.1° - 0.2 kt
 - St. contour: 18 m
 - True wind: 000.0° - 0.0 m/s
 - Rel. wind: 000.0°() - 0.0 m/s
 - Water t°: No data
 - Depth: No data
 - Tide height: 0.3 m, New Orleans
- Tasks List**: Event, Help
- Vectors**: Fixed, Show
- Depth in Metres**: WGS-84

At the bottom, a legend window titled "us3fl28m : S-57 ed 3.1 Chart" is open, showing the following details:

General info

- Null object class (RMID), area
- Coverage (M_COVR), area
- Depth area (DEPAR), area
- Nautical publication information (M_NPUB), area

General info

- Presentation Library: ed 3.3 March 2004
- Producing Agency Code: US (Office of Coast Survey)
- Producing Country Code: US (USA)
- Compilation scale: 1:180000
- Edition Number: 3; Update Number: 0
- Issue Date: 1 Mar 2006
- Horizontal Datum: WGS 84
- Vertical Datum: Mean high water
- Sounding Datum: Mean lower low water
- Depth Units: metres
- Height Units: metres
- Sounding Accuracy: 0
- Horizontal Accuracy: 0
- Sounding Accuracy: 0
- COMP: 1000000; SOME: 10
- Shifts to WGS 84 (in minutes): $\Delta_{1st} WGS 84 = 01N$, $\Delta_{2nd} WGS 84 = 0E$

The ARCSLN object displayed with limit line and question marks. No attributes were displayed for this object.

The screenshot displays a maritime software interface. The main map area shows a coastal region with various navigational markers and depth contours. A red box highlights a specific object on the map, with a callout bubble containing the text "ARCSLN object, no attributes". Below the map, a list of object classes is visible, with "Null object class (SnullS), line" selected. The right-hand sidebar contains several data panels:

- ARPA-A** and **AIS** tabs.
- ALARM** panel: "No new alarms", "Position Dropped".
- Ship** information: "21 - 03 - 06", "00:00", "21 : 21 : 06".
- Primary** position: "29° 53.449 N", "090° 24.165 W".
- Sec:** None.
- COG**: 263.0°.
- SOG**: 950.0 kt.
- HDG-u** and **LOG** fields.
- us3f128m** and **Autoload** ON.
- 1 : 500,000** and **Man. Corr.**
- System Information** panel with "Drift" (No data), "Current" (296.1° - 0.2 kt), "Sf. contour" (18 m), "True wind" (000.0° - 0.0 m/s), "Rel. wind" (000.0°() - 0.0 m/s), "Water t°" (No data), and "Depth" (No data).
- Tide height** panel: "0.3 m", "New Orleans".
- Tasks List**, **Event**, and **Help** buttons.
- Vectors** Fixed and **Show** checked.
- Depth in Metres** and **WGS-84**.

The ASLXLN line object displayed with question marks. No attributes were displayed for this object.

The screenshot displays a marine navigation software interface. A red callout box with the text "ASLXLN object no attributes" points to a specific line object on the map. The map shows a coastal area with various navigational markers and depth contours. The right-hand panel contains ship data and system information, including a "Position Dropped" alert, ship name "Ship", date "21-03-06", time "21:17:11", primary position "29° 53.449 N", "090° 24.165 W", and other parameters like COG (263.0°), SOG (960.0 kt), and HDG-u. The bottom panel shows a list of object classes with their respective attributes and source information. The interface also includes a "Main" button and a "Dual" mode indicator.

Object Class	Action
Null object class (\$nullS), line	to top
Null object class (\$nullS), area	to top
Coverage (M_COVR), area	to top
Depth area (DEPARE), area	to top
Depth area (DEPARE), area	to top

RESARE object displayed accordingly. Attribute for CATREA displayed as “BLANK”.

The screenshot displays a marine navigation software interface. The main map area shows a coastal region with various navigational markers and a highlighted Restricted Area (RESARE) in orange. A red callout box points to the RESARE object on the map, with the text "RESARE object, CATREA blank".

The information panel at the bottom left provides details for the selected RESARE object:

Restricted area (RESARE), area to top

Highlight

Category of restricted area (CATREA) : BLANK
 Restriction (RESTRN) : 9 (entry restricted)
 Information (INFORM) : Entry restricted; Particularly Sensitive Sea Area. A PSSA is an environmentally sensitive area around which mariners should exercise extreme caution. See U.S. Coast Pilot volumes for information regarding this area.
 Scale minimum (SCAMIN) : 500000
 Source date (SORDAT) : 20031100
 Source indication (SORIND) : US,US_graph,chart 11450

Caution area (CTNARE), area to top

Highlight

Information (INFORM) : Most features, including bathymetry, are omitted in this area. The minimal depiction of detail in this area does not support safe navigation, mariners should use a more appropriate navigational purpose chart.
 Scale minimum (SCAMIN) : 500000
 Source date (SORDAT) : 20031100
 Source indication (SORIND) : US,US_graph,chart 11450

Coverage (M_COVR), area to top

Main Dual info

The right-hand side of the interface shows various system and vessel data:

- ARPA-A AIS
- ALARM: No new alarms
- Position Dropped
- Ship: 21-03-06, 21:23:58
- Primary: 29° 53.449 N, 090° 24.165 W
- Sec: None
- COG: 263.0°
- SOG: 950.0 kt
- HDG-u
- LOG
- us3fl28m - Autoload ON
- 500,000 - Man. Corr.
- System Information
- Drift: No data
- Current: 296.1° - 0.2 kt
- Sf. contour: 18 m
- True wind: 000.0° - 0.0 m/s
- Rel. wind: 000.0° () - 0.0 m/s
- Water t°: No data
- Depth: No data
- Tide height: 0.3 m, New Orleans
- Tasks List, Event, Help
- Vectors: Fixed, Show
- Depth in Metres: WGS-84