Space-based capabilities to monitor shipbreaking

Smarter Waste Regulation & Pollution Crime Enforcement conference
13 November 2019 – Brussels

CLS
COLLECTE LOCALISATION SATELLITES

Introducing CLS

OUR VISION

CLS, a global company sharing a common passion: to design and deploy space-based solutions to understand, protect and manage Earth's resource's sustainably

For Earth, from Space

720 employees

25 locations

Introducing CLS
Shareholders & sectors of activities

Shareholders

cnes
CENTRE NATIONAL D'ÉTUDES SPATIALES

Ifremer

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CLS GROUP

CLS' day to day mission

Operations and data center

Receiving, processing, monitoring, distributing and archiving multi-sources satellite data

24/7 hotline
on-call service
SLA

Satellite data to support shipbreaking monitoring

HMNZS
MV
MV ENDEAVOUR [NU]
542405110 / 8615801
ZOOM
MV ENDEAVOUR
HALL, NICK
AIS Message 5
Additional info
Type : 80 - Tanker, all ships of this type
Radio Call Sign (RC) : E6NS2
Draught : 7.3 m
Width : 18 m
Length Overall : 138 m
Last Position
2018-09-08 10:16:42
21.7845°, 72.14108°
0°
?
ORB-TAIS-
AIS Quality: High
5825 / 5825
Trajectory
Nearby Vessel [1]
Identity change [63]
Rendez-vous
Voyage [170]
Alert
Vessel Timeline
Create Report
View reports
Search
Former name : HMNZS ENDEAVOUR
New name : MV ENDEAVOUR
Former MMSI : 512000400
New MMSI : 542405110
Former Call Sign : ZMRZ
New Call Sign : E6NS2
Former flag : New Zealand
New flag : NIUE.
Departure to India : 2018-03-20 at 0000 UTC.
CLS
CLSVIGI
193
2018-10-05 08:07:57 UTC
25.40358°, 20.74219°
Transit to India
Transit to India
512000400
Terms of Use © 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2015-12-31 13:54:14 to 2018-10-05 08:01:01
11 trimesters
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

HMNZS
MV
MV ENDEAVOUR [NU]
542405110 / 8615801
HALL, NICK
AIS Message 5
Additional info
Type : 80 - Tanker, all ships of this type
Radio Call Sign (RC) : E6NS2
Draught : 7.3 m
Width : 18 m
Length Overall : 138 m
Last Position
2018-04-28 04:16:15
21.40145°, 72.18955°
0°
?
ORB-TAIS-
AIS Quality: unknown
5765 / 5825
Trajectory
Nearby Vessel [2]
Identity change [63]
Rendez-vous
Voyage [170]
Alert
Vessel Timeline
Create Report
View reports
Search
CLS
CLSVIGI
193
2018-10-05 08:40:25 UTC
21.8411°, 71.53954°
MV ENDEAVOUR
Mooring
ALANG
© Planet
HMNZS ENDEAVOUR beached
Planet courtesy, 2018-04-28
ZOOM 1 : ACTIVITIES
The ship arrived to India on 2018-04-17 at 1818 UTC (first mooring area).
Departure to the deconstruction site on 2018-04-25 at 0900 UTC.
Beaching 2018-04-27 0900 UTC.
© 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2015-12-31 13:54:14 to 2018-10-05 08:01:01
11 trimesters
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

ELLE
ELLE [PW]
511733000 / 9158903
AIS Message 5
Additional info
Type : 80 - Tanker, all ships of this type
Radio Call Sign (RC) : T8A2835 Draught : 10.9 m
Width : 58 m Length Overall : 330 m
Last Position
2018-06-14 05:04:09
22.3976°, 91.6996°
6°
11.89 kt
ORB-SAIS-
AIS Quality: High
1385 / 1385
Trajectory
Nearby Vessel [3]
Identity change [16]
Rendez-vous
Voyage [1746]
Alert
Vessel Timeline [1762]
Create Report
View reports
Search
CLSVIGI
194
2018-10-16 13:14:06 UTC
27.81964°, 33.31055°
200NM
ELLE
200 nm
© 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2016-01-03 20:14:27 to 2018-10-16 12:53:40
11 trimesters
January 2015
April
July
October
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

ELLE
ELLE [PW]
511733000 / 9158903
AIS Message 5
Additional info
Type : 80 - Tanker, all ships of this type
Radio Call Sign (RC) : T8A2835 Draught : 10.9 m
Width : 58 m
Length Overall : 330 m
Last Position
2018-06-06 02:17:39
21.86228°, 91.63803°
13°
9.19 kt
ORB-SAIS-
AIS Quality: High
664 / 1385
Trajectory
Nearby Vessel [3]
Identity change [16]
Rendez-vous
Voyage [1746]
Alert
Vessel Timeline [762]
Create Report
View reports
Search
CLSVIGI
194
2018-10-16 13:35:07 UTC
22.43372°, 91.29192°
Last position
2018-06-14 at 05:04 UTC
ELLE
© Planet
Ship ELLE beached
Planet courtesy (optical) 2018-06-20
Mooring
2018-06-06 to 2018-06-14
Ship ELLE at anchor near Chittagong.
Planet courtesy (optical) 2018-06-07
© Planet
2 nm
Terms of Use © 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2016-01-03 20:14:27 to 2018-10-16 12:53:40
11 trimesters
January 2015
April
July
October
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

YONG
YONG CHANG [KN]
341176000 / 8709133
AIS Message 5
Additional info
Type : 70 - Cargo, all ships of this type
Radio Call Sign (RC) : V4RE3
Draught : 7.3 m
Width : 30 m
Length Overall : 182 m
Last Position
2018-09-17 09:32:28
21.77387°, 72.14976°
133.8°
?
ORB-TAIS-
AIS Quality: High
16911 / 16911
Trajectory
Nearby Vessel [2]
Identity change[272]
Rendez-vous
Voyage [302]
Alert
Vessel Timeline[574]
Create Report
View reports
Search
CLS
CLSVIGI
193
2018-10-05 09:14:53 UTC
60.8877°, -22.23633°
HIGHLIGHTS
The ship stopped twice probably for technical issues
First stop in French EEZ : 2017-08-28 1000 UTC – 1540 UTC
Second stop : in Greece EEZ : 2017-10-03 1600 UTC – 1800 UTC
ZOOM 1
ZOOM 2
ZOOM 3
Former name : City of Antwerp
New name : Yong Chang
Former MMSI : 356459000
New MMSI : 341176000
Former call sign : 3FRY8
New call sign : V4RE3
Former flag : Panama
New flag : St Kitts Nevis
Terms of Use © 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2015-12-31 13:54:14 to 2018-10-05 08:01:01
11 trimesters
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

YONG
YONG CHANG [KN]
341176000 / 8709133
AIS Message 5
Additional info
Type : 70 - Cargo, all ships of this type
Radio Call Sign (RC) : V4RE3
Draught : 7.3 m
Width : 30 m
Length Overall : 182 m
Last Position
2018-09-17 09:32:28
21.77387°, 72.14976°
133.8°
?
ORB-TAIS-
AIS Quality: High
16911 / 16911
Trajectory
Nearby Vessel [2]
Identity change[272]
Rendez-vous
Voyage [300]
Alert
Vessel Timeline[572]
Create Report
View reports
Search
CLS
CLSVIGI
193
2018-10-05 12:38:29 UTC
13.06878°, 20.47852°
ZOOM 1
ZOOM 2
© Planet
© Planet
Zoom 1 – ACTIVITIES
Localization on the ship YONG CHANG (ex CITY OF ANTWERP) in the port of Antwerp.
Planet image : CHONG YANG docked
Zoom 2 – ACTIVITIES
From 2017-09-15 to 2017-10-02 the ship is located in a Turkish shipyard. From 2017-09-26 to 2017-09-27 the ship is located into a refitting.
Optical image: detection of the exit of refitting.
© 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2015-12-31 02:26:57 to 2018-10-05 12:27:30
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

YONG
YONG CHANG [KN]
341176000 / 8709133
AIS Message 5
Additional info
Type : 70 - Cargo, all ships of this type
Radio Call Sign (RC) : V4RE3
Draught : 7.3 m
Width : 30 m
Length Overall : 182 m
Last Position
2017-12-23 01:01:41
21.38326°, 72.17682°
276.7°
3.9 kt
ORB-TAIS-
AIS Quality: unknown
16909 / 16911
Trajectory
Nearby Vessel [1]
Identity change[272]
Rendez-vous
Voyage [300]
Alert
Vessel Timeline[572]
Create Report
View reports
Search
CLS
CLSVIGI
193
2018-10-05 13:42:28 UTC
21.84302°, 71.9426°
© Planet
YONG CHANG beached
Planet courtesy, 2017-12-24
Mooring
ALANG
ZOOM 3 : ACTIVITIES
The ship arrived to India on 2017-12-21 at 0647 UTC (first mooring area).
Departure to the deconstruction site on 2017-12-21 at 1030 UTC.
Beaching 2017-12-23 0100 UTC.
© 2018 Microsoft Corporation Earthstar Geographics SIO
Period: 2015-12-31 02:26:57 to 2018-10-05 12:27:30
11 trimesters
January 2016
April
July
October
January 2017
April
July
October
January 2018
April
July
October 2018

Visualization of the deconstruction of the ship EKTA
the ship arrived on the site on October 6, 2017.

at the beginning of November 2017, the demolition of the ship is advanced.
At the end of November 2017, one third of the ship is deconstructed.

At the end of December 2017, the ship is half deconstructed.

At the end of May 2018, the ship is almost completely deconstructed

YETAGUN FSO

MMSI : **308985000**

IMO: **7714959**

Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
Deadweight : **86750 t**
Length x Breadth Extreme :
245m × 42m
Year Built : **1979**
Status: **decommissioned**

YETAGUN FSO

MMSI : **308985000**

IMO: **7714959**

Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
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AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
Deadweight : **86750 t**
Length x Breadth Extreme : **245m × 42m**
Year Built : **1979**
Status: **decommissioned**

Analysis :
The tug RESOLVE MONARCH arrived on the zone on September 3rd. The tug will then tow the YETAGUN to Alang.
Both ships left on September 5th at 07:00 UTC.

YETAGUN FSO

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IMO: **7714959**

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Deadweight : **86750 t**
Length x Breadth Extreme : **245m × 42m**
Year Built : **1979**
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CLS
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Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
Deadweight : **86750 t**
Length x Breadth Extreme : **245m × 42m**
Year Built : **1979**
Status: **decommissioned**

Analysis :
the AIS of the ship is definitely stopped on November 4 at 18:01 UTC.

YETAGUN FSO

MMSI : **308985000**

IMO: **7714959**

Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
Deadweight : **86750 t**
Length x Breadth Extreme :
245m × 42m
Year Built : **1979**
Status: **decommissioned**

YETAGUN FSO

MMSI : **308985000**

IMO: **7714959**

Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
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Length x Breadth Extreme :
245m × 42m
Year Built : **1979**
Status: **decommissioned**

Analysis :
the ship was beached between November 4 and November 9.

YETAGUN FSO

MMSI : **308985000**

IMO: **7714959**

Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
Deadweight : **86750 t**
Length x Breadth Extreme :
245m × 42m
Year Built : **1979**
Status: **decommissioned**

YETAGUN FSO

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YETAGUN FSO

MMSI : **308985000**

IMO: **7714959**

Call Sign : **-**
Flag : **Bahamas**
AIS Vessel Type : **Floating Storage**
Gross Tonnage : **51556 t**
Deadweight : **86750 t**
Length x Breadth Extreme : **245m × 42m**
Year Built : **1979**
Status: **decommissioned**

YETAGUN FSO is no longer visible on the site from April 8 2019.

Thank you!

Questions?

Esma Mekraoui

emekraoui@groupcls.fr