Marine Information for Safety and Law Enforcement (MISLE)
Marine Casualty and Pollution Database
January 25, 2008

The Marine Casualty and Pollution Database contains data related
to marine casualty investigations reportable under 46 C.F.R.
4.03 and pollution investigations reportable under 33 C.F.R.
153.203. The data reflect information collected by U.S. Coast
Guard personnel concerning vessel and waterfront facility
accidents and marine pollution incidents throughout the United
States and its territories.

In December 2001, the U.S. Coast Guard transitioned from the
Marine Safety Information System (MSIS) to the Marine
Information for Safety and Law Enforcement (MISLE) system.
MISLE changed the way the U.S. Coast Guard collects data. New
data elements were added to collect information on new and
expanded missions of the U.S. Coast Guard. Many of the tables
from MSIS were altered for more efficient database design. The
current Casualty and Pollution database has little resemblance
to the Casualty and Pollution database derived from MSIS files.
New records layouts are provided in this instruction.

Nine files have been added to the CD-ROM. These files contain
data from mid **December 2001** through **January 2008**. In addition,
over 1,300 casualty and pollution investigations not included in
the 2001 Casualty and Pollution database are part of the new
MISLE pollution and casualty database. These cases were open at
the time of the 2001 extract and mostly reflect cases from 2000
and 2001 time period. A new vessel and facility file was
developed and is included on the CD-ROM. The data in the vessel
and facility files date back to 1982. New vessel and facility
identifiers were created and should be used in place of the
older vessel and facility key fields (vkey/fkey).

Beginning in 2002, Casualty and Pollution investigations are no
longer identified by marine casualty case numbers (MC#######).
MC Case Numbers have been replaced with activity Ids.
Activities may be bundled into cases. These cases represent
associates between activities. For instance, a marine pollution
incident activity may have a follow up incident management
activity. Together, these activities represent a case.

Your CD-ROM has an activity file that contains common data for
casualty and pollution activities. The file contains the
incident date, the unit that conducted the investigation and any
associated case numbers. All activities in the database are

closed investigations. Below are the number of open Pollution
and Injury/Death Investigations not included on the CD-ROM.

Year	Pollution Investigations
CY 2002	212
CY 2003	187
CY 2004	264
CY 2005	481
CY 2006	3,841
CY 2007	3,834
CY 2008	173

Year	Injury/Death Cases
CY 2002	11
CY 2003	89
CY 2004	88
CY 2005	173
CY 2006	1,011
CY 2007	859
CY 2008	17

Year	Facility Events
CY 2002	28
CY 2003	50
CY 2004	57
CY 2005	170
CY 2006	1,281
CY 2007	1,472
CY 2008	70

Year	Vessel Events
CY 2002	194
CY 2003	319
CY 2004	425
CY 2005	1,344
CY 2006	7,785
CY 2007	9,830
CY 2008	519

The material is predecisional and is not releasable to the
public. When these activities are closed, they will be included
in future releases.

The vessel and facility event tables contain the event timeline in a casualty or pollution incident. Some casualties have multiple events and can involve both vessels and facilities. Use the activity id in these files as the join field to the other tables in the database.

A separate table with details on personnel injury events is included on the CD-ROM. This table contains details on injuries to crewmembers, passengers and other parties.

There are three pollution tables included on the CD-ROM. These tables provide details on marine pollution events involving vessels, facilities and other pollution sources. These pollution tables have similar data structures and provide details on the substance and the amount of the discharge. To find information on a vessel pollution event, see the MisleVslPoll table. Details on facility pollution events are located in the MisleFacPoll table. Information on other pollution sources is contained in the MisleOtherPoll table (i.e., automobiles). For more information on the pollution source, refer to the vessel and facility tables. The join field for these tables is vessel/nonvessel id.

Information on mystery spills and ticket cases is included in the pollution tables. Mystery spills are defined as a waterway condition because the source of the spill is unknown and may appear in any of the three pollution tables. Ticket cases are included in the database. These cases are assigned activity numbers and replace the old MSIS ticket numbers (TK#######).

A new vessel and facility table is provided on the CD-ROM that provides details on over 936,800 vessels and 42,200 facilities. Many of these records were created in MSIS and migrated to MISLE. A new vessel/nonvessel id was created to replace the VKEY/FKEY used in MSIS. These tables were constructed to include many of the same data elements in past MSIS vessel and facility tables. When the U.S. Coast Guard performs activities on vessels and facilities, new records are entered or updated in the system to reflect changes in the vessel or facility's service

Hints on joining files. The activity identifiers are computer-generated numbers identifying an investigation activity. Each activity has subcategories to further define the activity. Each file in the database contains an activity identifier that can be joined across files. By joining these files, more details on the investigation case are supplied.

A facility and vessel file are included on the CD-ROM to provide
you with details on vessels and facilities involved in a marine
casualty. To join the vessel and facility files to the other
database files, join the gk_d_vessel or gk_d_facility fields to
the vessel_id and nonvessel_id ids in the other subject files.

Not included on the CD-ROM is the file that lists other sources
of pollution. Other sources include aircraft, vehicles, and
other facilities not classified in the facility file.

Questions concerning the data should be directed to Mr. Harold
Krevait at (202)372-1289.

Entity Attributes

Table Name: MisleActivity

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	int	case_id	4
3	char	incident_dt	10
4	char	dept_name	40
5	varchar	activity_type	25
6	varchar	activity_status	25
7	varchar	activity_status_subtype	50

Table Name: MisleFacEvents

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	int	case_id	4
3	char	incident_dt	10
4	varchar	activity_type	22
5	int	nonvessel_id	4
6	varchar	waterway_name	50
7	varchar	event_type	30
8	varchar	event_class	46
9	varchar	event_subclass	55
10	varchar	activity_role	47
11	varchar	damage_status	38
12	varchar	latitude	21
13	varchar	longitude	22

Table Name: MisleVslEvents

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	int	case_id	4
3	char	incident_dt	10
4	varchar	activity_type	22
5	int	vessel_id	4
6	varchar	waterway_name	50
7	varchar	event_type	30
8	varchar	event_class	46
9	varchar	event_subclass	55
10	varchar	activity_role	50
11	varchar	damage_status	35
12	varchar	latitude	21
13	varchar	longitude	22

Table Name: MisleInjury

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	char	incident_dt	10
3	varchar	activity_type	22
4	int	vessel_id	4
5	varchar	relationship_type	25
6	varchar	waterway_name	50
7	varchar	accident_type	48
8	varchar	casualty_type_desc	23
9	varchar	latitude	21
10	varchar	longitude	22

Table Name: MisleFacPoll

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	int	case_id	4
3	char	incident_dt	10
4	varchar	activity_type	22
5	int	nonvessel_id	4
6	varchar	waterway_name	50
7	char	chris_cd	3
8	varchar	substance_name	98
9	varchar	substance_class	11
10	varchar	substance_subclass	27
11	varchar	substance_type	80
12	varchar	substance_subtype	75
13	varchar	latitude	21
14	varchar	longitude	22
15	decimal	discharge_amnt_total	12 dec 1
16	decimal	discharge_amnt_water	12 dec 1
17	decimal	discharge_amnt_land	12 dec 1
18	decimal	discharge_amnt_air	12 dec 1
19	decimal	discharge_amnt_enclosed	12 dec 1
20	decimal	potential_amnt_total	12 dec 1
21	decimal	potential_amnt_water	12 dec 1
22	decimal	potential_amnt_land	12 dec 1
23	decimal	potential_amnt_air	12 dec 1
24	decimal	potential_amnt_enclosed	12 dec 1
25	decimal	contained_amnt	12 dec 1
26	varchar	discharge_potential_type	11
27	varchar	discharge_situation_type	44
28	varchar	discharge_estimated_land	11
29	varchar	discharge_estimated_air	11
30	varchar	discharge_estimated_water	11
31	varchar	discharge_estimated_encl	11
32	varchar	potential_case	18
33	varchar	potential_estimated	11
34	varchar	contained_estimated	11
35	varchar	unit_of_measure	26
36	varchar	activity_role	47
37	varchar	damage_status	38

Table Name: MisleVslPoll

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	int	case_id	4
3	char	incident_dt	10
4	varchar	activity_type	22
5	int	vessel_id	4
6	varchar	waterway_name	50
7	char	chris_cd	3
8	varchar	substance_name	98
9	varchar	substance_class	11
10	varchar	substance_subclass	27
11	varchar	substance_type	80
12	varchar	substance_subtype	75
13	varchar	latitude	21
14	varchar	longitude	22
15	decimal	discharge_amnt_total	13 dec 1
16	decimal	discharge_amnt_water	13 dec 1
17	decimal	discharge_amnt_land	13 dec 1
18	decimal	discharge_amnt_air	13 dec 1
19	decimal	discharge_amnt_enclosed	13 dec 1
20	decimal	potential_amnt_total	13 dec 1
21	decimal	potential_amnt_water	13 dec 1
22	decimal	potential_amnt_land	13 dec 1
23	decimal	potential_amnt_air	13 dec 1
24	decimal	potential_amnt_enclosed	13 dec 1
25	decimal	contained_amnt	13 dec 1
26	varchar	discharge_potential_type	11
27	varchar	discharge_situation_type	44
28	varchar	discharge_estimated_land	11
29	varchar	discharge_estimated_air	11
30	varchar	discharge_estimated_water	11
31	varchar	discharge_estimated_encl	11
32	varchar	potential_case	18
33	varchar	potential_estimated	11
34	varchar	contained_estimated	11
35	varchar	unit_of_measure	26
36	varchar	activity_role	50
37	varchar	damage_status	38

Table Name: MisleOtherPoll

Column No.	Type	Column Name	Length
1	int	activity_id	4
2	int	case_id	4
3	char	incident_dt	10
4	varchar	activity_type	22
5	int	other_id	4
6	varchar	subject_name	70
7	varchar	waterway_name	50
8	char	chris_cd	3
9	varchar	substance_name	98
10	varchar	substance_class	11

11	varchar	substance_subclass	27
12	varchar	substance_type	80
13	varchar	substance_subtype	75
14	varchar	latitude	21
15	varchar	longitude	22
16	decimal	discharge_amnt_total	12 dec 1
17	decimal	discharge_amnt_water	12 dec 1
18	decimal	discharge_amnt_land	12 dec 1
19	decimal	discharge_amnt_air	12 dec 1
20	decimal	discharge_amnt_enclosed	12 dec 1
21	decimal	potential_amnt_total	12 dec 1
22	decimal	potential_amnt_water	12 dec 1
23	decimal	potential_amnt_land	12 dec 1
24	decimal	potential_amnt_air	12 dec 1
25	decimal	potential_amnt_enclosed	12 dec 1
26	decimal	contained_amnt	12 dec 1
27	varchar	discharge_potential_type	11
28	varchar	discharge_situation_type	44
29	varchar	discharge_estimated_land	11
30	varchar	discharge_estimated_air	11
31	varchar	discharge_estimated_water	11
32	varchar	discharge_estimated_encl	11
33	varchar	potential_case	18
34	varchar	potential_estimated	11
35	varchar	contained_estimated	11
36	varchar	unit_of_measure	26

Table Name: MisleVessel

Column No.	Type	Column Name	Length
1	char	gk_d_vessel	28
2	char	vessel_id	15
3	varchar	vessel_name	50
4	char	managing_owner_id	28
5	varchar	managing_owner	120
6	varchar	gross_ton	8
7	varchar	net_ton	8
8	varchar	length	7
9	varchar	breadth	7
10	varchar	depth	7
11	varchar	itc_breadth	7
12	varchar	itc_depth	7
13	varchar	itc_gross_ton	8
14	varchar	itc_length	7
15	varchar	itc_net_ton	8
16	varchar	draft_design	8
17	char	draft_design_units	2
18	char	dead_weight_ton	8
19	char	deadweighttonnage_units	2
20	char	flag_abbr	2
21	varchar	hailing_port	50
22	varchar	hailing_port_state	2
23	varchar	hailing_port_province	50
24	varchar	route_type	50
25	varchar	classification_society	80
26	varchar	cargo_authorization_type	30

27	char	documented_ind	1
28	varchar	documented_status_type	30
29	char	inspected_ind	1
30	varchar	inspected_desc	30
31	char	state_vessel_ind	1
32	varchar	state_vessel_desc	30
33	char	lloyds_ind	1
34	varchar	lloyds_desc	30
35	char	solas_ind	1
36	varchar	solas_desc	30
37	varchar	insp_subchapter_type	255
38	varchar	vessel_class	50
39	varchar	vessel_type	50
40	varchar	vessel_subtype	50
41	varchar	vessel_service	30
42	varchar	max_passengers_allowed	6
43	varchar	max_crew	6
44	varchar	self_propelled_ind	1
45	varchar	propulsion_type	30
46	varchar	hull_material	30
47	varchar	hull_design_type	30
48	varchar	hull_double_bottom_type	30
49	varchar	hull_double_side_type	30
50	varchar	call_sign	8
51	varchar	official_number	10
52*	**varchar**	**primary_vin**	**30**
53	varchar	hull_number	30
54	varchar	rbs_hull_number	30
55	varchar	imo_number	30
56	varchar	vessel_age	4
57	varchar	build_shipyard	50
58	char	build_year	4
59	varchar	hull_build_party_name	80
60	varchar	completed_by_party_name	80
61	varchar	horsepower_ahead	5
62	varchar	horsepower_astern	5
63	varchar	forebody_type_desc	30
64	varchar	hull_configuration	30
65	varchar	hull_shape	30
66	char	filler	1

*new field added October 2007

Table Name: MisleFacility

Column No.	Type	Column Name	Length
1	int	gk_d_facility	4
2	int	msn_non_vessel_id	4
3	varchar	facility_name	34
4	varchar	facility_type_desc	29
5	varchar	facility_subtype_desc	26
6	char	facility_state_abbr	2
7	varchar	nav_hazard_desc	23
8	varchar	pollution_source_desc	22
9	varchar	public_safety_risk_desc	24
10	varchar	primary_id_type_desc	23

11	varchar	primary_id	17
12	varchar	latitude	21
13	varchar	longitude	22
14	varchar	manned_platform_desc	21
15	varchar	helo_deck_desc	23
16	varchar	inspected_facility_desc	22
17	char	current_ind	1

File Names	Number of Records
MisleActivity.txt	36,951
MisleFacEvents.txt	7,375
MisleVslEvents.txt	39,053
MisleInjury.txt	4,872
MisleFacPoll.txt	5,780
MisleVslPoll.txt	8,424
MisleOtherPoll.txt	5,183
MisleVessel.txt	936,826
MisleFacility.txt	42,253