MEDIAS CTDs

Layouts

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medbs_rdb_schema.e_ctd_measur_hd 🎾 survey_name varchar(14)┍ cd_country varchar(3)┍ varchar(7)♪ gsa cd_centre varchar(14)┍️ cd_inst varchar(14)♪ cd_cruise varchar(14)← cd_vessel varchar(12)┍️ cast_id varchar(14)← cd_instrument varchar(14) → latitude numeric(7.4)longitude numeric(7,4)cast_date date cast_time time max_depth smallint haul_depth smallint cd_bottom_ql varchar(4)♪ roughness numeric(7,2)slope numeric(6,2)cd_weather varchar(2)♪ cd_sea varchar(2)┍

medbs_rdb_schema.e_instrument_parameter_unit_used varchar(14)♂ survey_name cd_country varchar(3)↑ varchar(7)♂ gsa varchar(14)♪ cd_centre cd_inst varchar(14)┍ cd_cruise varchar(14)↑ cd_vessel varchar(3) cast_id varchar(14)♪ <™_ cd_instrument varchar(14)♂ cd_parameter varchar(32)

varchar(64)

🎾 unit

medbs_rdb_schema.e_ctd_measur_it

varchar(3)♪

smallint

cd_wind

transect_id

🎾 St	ırvey_name	varchar(14)∱
* co	_country	varchar(3)🗲
🎾 gs	sa .	varchar(7)∱
* co	d_centre	varchar(14)
* co	d_inst	varchar(14)
* co	_cruise	varchar(14)
* co	d_vessel	varchar(12)
* Ca	ast_id	varchar(14)
* co	_instrument	varchar(14)∱
* co	l_parameter	varchar(32) 🟲
🎾 pr	ofile_depth	numeric(5,1)
Va	al	numeric

Idx	Name	Data Type	Description
CTD		- .	·
k Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS, MEDITS)
k Pk	cd_country	varchar(3)	Country ISO 3166 international standard
k Pk	gsa	varchar(7)	GFCM Geographical subarea
k Pk	cd_centre	varchar(14)	Centre code
k Pk	cd_inst	varchar(14)	Institute code
∗ Pk	cd_cruise	varchar(14)	Cruise code
k Pk	cd_vessel	varchar(12)	Vessel
∗ Pk	cast_id	varchar(14)	Cast ID
∗ Pk	cd_instrument	varchar(14)	Instrument code
k	latitude	numeric(7,4)	Latitude in decimal degrees
k	longitude	numeric(7,4)	Longitude in decimal degrees
	cast_date	date	Date
	cast_time	time	Shooting time
	max_depth	smallint	Maximum depth of the cast (to be filled auto by the profile table)
	haul_depth	smallint	Haul depth (m)
	cd_bottom_ql	varchar(4)	Bottom quality
	roughness	numeric(7,2)	Roughness (https://www.researchgate.net/figure/a–Bottom- roughness–length–ZO–used–for–varied–condition–b–refined– bottom–roughness_fig2_335792497)
	slope	numeric(6,2)	Slope (for degrees, the range of slope values is 0 to 90)
	cd_weather	varchar(2)	Weather
	cd_sea	varchar(2)	Sea condition
	cd_wind	varchar(3)	Wind direction
	transect_id	smallint	Transect ID
Index	es		
Type	Name	0n	Description
°k	e_ctd_measur_hd_pkey	survey_name, cd_country, gsa, cd_centre, cd_inst, cd_cruise, cd_vessel, cast_id, cd_instrument	
Forei	gn Keys		
Гуре	Name	On	Description
	cd_vessel_fk\$rv_eurofleets (c rv_eurofleets (vessel_code)	d_vessel) ref	
	survey_name_fk\$p_surveys (sur (survey_code)	vey_name) ref p_surveys	
	<pre>cd_instrument_fk\$e_instrument e_instrument (cd_instrument)</pre>		
	weather_fk\$p_weather (cd_weat)		
	sea_condition_fk\$p_sea_conditi p_sea_condition (cd)		
	wind_fk\$p_wind (cd_wind) ref		
	bottom_quality_fk\$p_bottom_typ p_bottom_types (cd_bottom)	es (cd_bottom_q1) ref	
	e_ctd_measur_hd_country_fk\$p_c ref p_countries_iso3166 (coun	try_a3code)	
	gsa_fk\$p_fdi_subregion (gsa) subregion_cd)		

Table medbs_rdb_schema.e_ctd_measur_hd

cd_centre_fk\$p_fishery_bodies_acronym (cd_centre) ref p_fishery_bodies (acronym)

cd_inst_fk\$p_fishery_body_departments (cd_inst) ref p_fishery_body_departments (department)

Constraints

Name	Definition	Description
chk_latitude	latitude >= 34.00) AND (latitude <= 45.70	
chk_longitude	longitude >= '- 5.50'::numeric) AND (longitude <= 35.00	
chk_haul_depth	haul_depth >= 10) AND (haul_depth <= 1500	
chk_roughness	(roughness > (O)::numeric) OR NULL::boolean	
chk_slope	((slope >= (0)::numerio AND (slope <= (90)::numerio)) OR NULL::boolean	
chk_max_depth	max_depth >= 10) AND (max_depth <= 1500	

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Idx	Name	Data Type	Description
CTD Measurments			
* Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS, MEDITS)
* Pk	cd_country	varchar(3)	Country ISO 3166 international standard
* Pk	gsa	varchar(7)	GFCM Geographical subarea
* Pk	cd_centre	varchar(14)	Centre code
* Pk	cd_inst	varchar(14)	Institute code
* Pk	cd_cruise	varchar(14)	Cruise
* Pk	cd_vessel	varchar(12)	Vessel
* Pk	cast_id	varchar(14)	Cast ID
* Pk	cd_instrument	varchar(14)	Instrument code
* PK	cd_parameter	varchar(32)	Parameter
* PK	profile_depth	numeric(5,1)	Water column depth (m)
	val	numeric	Parameter value
Index	es		
Type	Name	0n	Description
Pk	e_ctd_measur_it_pkey	<pre>profile_depth, cd_parameter, cd_instrument, cast_id, cd_vessel, cd_cruise, cd_inst, cd_centre, gsa, cd_country, survey_name</pre>	
Come !	de Verre		

Foreign Keys

	1 4 4 4 6 1 1 1 4 1 4 1 1 1 1 1 1 1 1 1			
Type	Name	0n	Description	
	cd_vessel_fk\$rv_eurofleets (c	d_vessel) ref		

cd_vessel_tk\$rv_eurofleets (cd_vessel) ref rv_eurofleets (vessel_code)

survey_name_fk\$p_surveys (survey_name) ref p_surveys (survey_code)

fk_e_instrument_parameter\$e_instrument_parametes (
cd_instrument, cd_parameter) ref

e_instrument_parameters (cd_instrument, cd_parameter)

medbs_rdb_schema.e_ctd_measur_it_country_fk\$p_country31
66 (cd_country) ref p_countries_iso3166 (
country_a3code)

Table medbs_rdb_schema.e_ctd_measur_it

```
gsa_fk$p_fdi_subregion ( gsa ) ref p_fdi_subregion (
subregion_cd )
cd_centre_fk$p_fishery_bodies_acronym ( cd_centre ) ref
p_fishery_bodies ( acronym )
\verb|cd_inst_fk$p_fishery_body_departments ( \verb|cd_inst|) | ref|
p_fishery_body_departments ( department )
e_ctd_measur_it_fk$e_ctd_measur_hd ( survey_name,
cd_country, gsa, cd_centre, cd_inst, cd_cruise,
cd_vessel, cast_id, cd_instrument) ref e_ctd_measur_hd
( survey_name, cd_country, gsa, cd_centre, cd_inst, cd_cruise, cd_vessel, cast_id, cd_instrument )
```

Constraints

Idx Name

Name	Definition	Description
chk_profile_depth	profile_depth >= 0.1 AND (profile_depth < (1500)∷numeric	
chk_val	val >= (0)::numeric	

Description

lable medbs_rdb_schema.e_instrument_parameter_unit_u	sed
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Data Type

			·
Param	eter unit used in a station by	equipment used (e.g. equip	oment=CTDSBE19p, parameter=TM, unit=C)
* Pk	survey_name	varchar(14)	Survey name (e.g. MEDIAS, MEDITS)
* Pk	cd_country	varchar(3)	Country ISO 3166 international standard
* Pk	gsa	varchar(7)	GFCM Geographical subarea
* Pk	cd_centre	varchar(14)	Centre code
* Pk	cd_inst	varchar(14)	Institute code
* Pk	cd_cruise	varchar(14)	Cruise
* Pk	cd_vessel	varchar(3)	Vessel
* PK	cast_id	varchar(14)	Cast ID
* PK	cd_instrument	varchar(14)	Instrument code (e.g. CTDSBE19p)
* PK	cd_parameter	varchar(32)	Parameter (e.g. TM)
* Pk	unit	varchar(64)	Unit (e.g. C)
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Type	Name	0n	Description
Pk	e_instrument_parameter_unit_us ed_pkey	survey_name, cd_country, gsa, cd_centre, cd_inst, cd_cruise, cd_vessel, cast_id, cd_instrument, cd_parameter, unit	

Foreign Keys

Type	Name	0n	Description
	e_instrument_parameter_unit_us survey_name, cd_country, gsa, cd_cruise, cd_vessel, cast_id, e_ctd_measur_hd (survey_name, cd_centre, cd_inst, cd_cruise, cd_instrument)	cd_centre, cd_inst, cd_instrument) ref cd_country, gsa,	
	<pre>fk_e_parameter_unit_used\$e_ins cd_parameter, unit) ref e_instrument_parameter_list_of)</pre>		