

Subscans Table

The subscans table holds the most specific scientific metadata in the archive.

Definition:

Column	Type	Collation	Nullable	Default
subscan_id	integer		not null	nextval('subscans_subscan_id_seq'::regclass)
scan_id	integer		not null	
file_id	integer			
ost_subscan_id	integer			
obstype	character varying		not null	
starttime	double precision		not null	
endtime	double precision		not null	
sourcename	character varying		not null	
sourcetype	character varying		not null	
ra	double precision		not null	
dec	double precision		not null	
exposure_time	double precision		not null	
integration_time	double precision		not null	
receiver_id	integer		not null	
backend	character varying		not null	
intent	character varying			
configuration_id	integer		not null	

Indexes:

"subscan_pk" PRIMARY KEY, btree (subscan_id)

Foreign-key constraints:

"configurations_subscans_fk" FOREIGN KEY (configuration_id) REFERENCES configurations(configuration_id) ON UPDATE CASCADE ON DELETE CASCADE

"files_subscans_fk" FOREIGN KEY (file_id) REFERENCES files(file_id) ON UPDATE CASCADE ON DELETE CASCADE

"receivers_subscans_fk" FOREIGN KEY (receiver_id) REFERENCES receivers(receiver_id)

"scans_subscans_fk" FOREIGN KEY (scan_id) REFERENCES scans(scan_id) ON UPDATE CASCADE ON DELETE CASCADE

Referenced by:

TABLE "subscan_intents" CONSTRAINT "subscans_scan_intents_fk" FOREIGN KEY (subscan_id) REFERENCES subscans (subscan_id) ON UPDATE CASCADE ON DELETE CASCADE

TABLE "subscan_data_descriptions" CONSTRAINT "subscans_subscan_data_descriptions_fk" FOREIGN KEY (subscan_id) REFERENCES subscans(subscan_id)

Columns:

subscan_id: an auto-generated id.

scan_id: foreign key linking subscans to scans table.

file_id: foreign key linking subscan to the file that holds the actual data.

ost_subscan_id:the id of this subscan in the Observation Scheduling Tool, if it exists.

obstype: the type of observation that generated this subscan, eg: "POINT", "TRACK", "OTHER".

starttime and **endtime**: the start and end time of the observation, in mjd.

sourcename: the radio source being observed,

sourcetype: the type of object. in the current data, this is not very useful, as the values are "STAR" or "none".

ra: the central right ascension. Units: Degrees

dec: the central declination. Units: Degrees

exposure_time: the total exposure time of the observation.

integration_time: the temporal resolution.

receiver_id: theoretically the front-end receiver hardware that was used for the observation. in practice, all values are 0. Potential values are in receivers table.

backend: the back end hardware that processed the observation, eg: DCR, GUPPI

intent: a string containing multiple intent codes, eg: "OBSERVE_TARGET CALIBRATE_AMPLI CALIBRATE_FLUX CALIBRATE_PHASE"

configuration_id: the id of the configuration for this observation. see configurations table for details.