

# Files Table

This table holds all of the files that are accessible in NGAS, with file-specific data about them. It is not meant to hold any data about the scientific contents of the files.

## Definition:

Column	Type	Collation	Nullable	Default
file_id	integer		not null	nextval('files_file_id_seq'::regclass)
file_path	character varying			
ngas_id	character varying			
filegroup	integer		not null	
filename	character varying		not null	
filesize	bigint		not null	
format	character varying		not null	
type	character varying		not null	
checksum	character varying			
checksum_type	character varying			
ingestion_time	timestamp with time zone			

Indexes:

```
"file_id" PRIMARY KEY, btree (file_id)
```

```
"files_filegroup" btree (filegroup)
```

Foreign-key constraints:

```
"filegroups_files_fk" FOREIGN KEY (filegroup) REFERENCES filegroups(filegroup_id) ON UPDATE CASCADE ON DELETE CASCADE
```

Referenced by:

```
TABLE "calibration_tables" CONSTRAINT "files_calibration_tables_fk" FOREIGN KEY (file_id) REFERENCES files (file_id) ON UPDATE CASCADE ON DELETE CASCADE
```

```
TABLE "images" CONSTRAINT "files_images_fk" FOREIGN KEY (file_id) REFERENCES files(file_id) ON UPDATE CASCADE ON DELETE CASCADE
```

```
TABLE "subscans" CONSTRAINT "files_subscans_fk" FOREIGN KEY (file_id) REFERENCES files(file_id) ON UPDATE CASCADE ON DELETE CASCADE
```

```
TABLE "workflow_input_files" CONSTRAINT "files_workflow_input_files_fk" FOREIGN KEY (file_id) REFERENCES files (file_id) ON UPDATE CASCADE ON DELETE SET NULL
```

```
TABLE "image_products" CONSTRAINT "image_products_files_file_id_fk" FOREIGN KEY (product_file_id) REFERENCES files(file_id) ON UPDATE CASCADE ON DELETE CASCADE
```

```
TABLE "image_products" CONSTRAINT "image_products_product_file_id_fkey" FOREIGN KEY (product_file_id) REFERENCES files(file_id)
```

## Columns:

**file\_id:** an auto-generated id to uniquely identify the file.

**file\_path:** originally meant to state where in the file tree built at download this file should be place, but was never used for that purpose. Currently holds the same value as ngas\_id.

**ngas\_id:** the uniquely identifying id given to the file by NGAS, and used to retrieve it.

**filegroup:** the id of the filegroup that the file is in. See [Filegroups Table](#).

**filename:** the string to name the file at download.

**filesize:** the data size of the file on disc, in bytes.

**format:** the data format of the file.

**type:** the data type of the file, eg. 'cal' for calibration tables, 'raw' for raw data.

**checksum:** a checksum of the file, to verify the download. Only present for some files.

**checksum\_type:** the checksum algorithm used, eg. MD5.

**ingestion\_time:** the date and time of when the file was ingested into the archive.