

## ***PROCEDURE FOR LAUNCHING COMMAND-LINE PROCESSING***

FULL\_MAJA processing applies MAJA processing over a defined period for a given tile (see MAJA processing description for information on the algorithm used).

*Pay attention to the copy-paste which can sometimes change some special characters like "-", ""*

### **1) Submission of the process**

For these inputs to be used for processing, they must be put into a file named *data.json*, which takes the following form.

```
{
  "inputs": {
    "startDate": "YYYY-MM-DD",
    "completionDate": "YYYY-MM-DD",
    "tileid": "X",
    "relativeOrbitNumber": "none", (or an integer)
    "notif-email": true (or false)
  }
}
```

The API-KEY can be found in GEODES platform, in the My informations page:

```
export APIKEY="YOUR_API_KEY"
```

On the same console, the process can be launched using the following command, in this example the curl command was executed where the file *data.json* is located:

```
curl -XPOST -k --data "@data.json" -H "Content-Type:application/json" -H "X-API-Key: $APIKEY" -H "Prefer:respond-async" "https://geodes-portal.cnes.fr/processing/processes/full-maja/execution"
```

#### **Response:**

The *JobID* is returned in case of a successful launch.

### **2) Launch follow-up.**

It is possible to view the status of a specific job using its ID or the status of all the launched jobs for a specific user using his email address.

#### **i. The case of visualizing the status of a specific job:**

The following command lists the status of a specific launched job:

```
curl -XGET -H "X-API-Key: $APIKEY" -k "https://geodes-portal.cnes.fr/processing/jobs/JOB_ID"
```

**JOB\_ID** should be replaced by the ID of the job!

**Response:**

```
{
  "processID": "full_maja",
  "jobID": "10cd5440-80d1-11ee-8892-0242ac140152",
  "status": "running",
  "message": "Job submitted to Scheduler",
  "progress": 25,
  "parameters": "",
  "user": "email.address@email.com",
  "job_start_datetime": "2023-11-11T20:29:51",
  "job_end_datetime": null,
  "links": [
    {
      "href": "https://geodes-portal.cnes.fr/processing/jobs/10cd5440-80d1-11ee-8892-0242ac140152/results?f=html",
      "rel": "about",
      "type": "text/html",
      "title": "results of job 10cd5440-80d1-11ee-8892-0242ac140152 as HTML"
    },
    {
      "href": "https://geodes-portal.cnes.fr/processing/jobs/10cd5440-80d1-11ee-8892-0242ac140152/results?f=json",
      "rel": "about",
      "type": "application/json",
      "title": "results of job 10cd5440-80d1-11ee-8892-0242ac140152 as JSON"
    },
    {
      "href": "https://geodes-portal.cnes.fr/processing/jobs/10cd5440-80d1-11ee-8892-0242ac140152/results",
      "rel": "about",
      "type": null,
      "title": "results of job 10cd5440-80d1-11ee-8892-0242ac140152 as None"
    }
  ]
}
```

- ii. **The case of visualizing the status of all the jobs for a user:**

The following command lists the status of all the launched jobs for a specific user:

```
curl -XGET -H "X-API-Key: $APIKEY" -k "https://geodes-portal.cnes.fr/processing/jobs/?user=USER_EMAIL"
```

**USER\_EMAIL** should be replaced!

### Response:

```
{
  "jobs": [
    {
      "processID": "full-maja",
      "jobID": "04335ccc-7fcb-11ee-bfa7-0242ac140152",
      "status": "successful",
      "message": "Job complete",
      "progress": 100,
      "parameters": "",
      "user": "email.address@email.com",
      "job_start_datetime": "2023-11-10T13:14:02",
      "job_end_datetime": "2023-11-10T13:17:13",
      "links": [
        {
          "href": "https://geodes-portal.cnes.fr/processing/jobs/04335ccc-7fcb-11ee-bfa7-0242ac140152/results?f=html",
          "rel": "about",
          "type": "text/html",
          "title": "results of job None as HTML"
        },
        {
          "href": "https://geodes-portal.cnes.fr/processing/jobs/04335ccc-7fcb-11ee-bfa7-0242ac140152/results?f=json",

```

```

        "rel": "about",
        "type": "application/json",
        "title": "results of job None as JSON"
    }
]
},
{
    "processID": "ortho-s1-grd",
    "jobID": "857dc1c8-7f08-11ee-b4e2-0242ac140169",
    "status": "running",
    "message": "Job submitted to Scheduler",
    "progress": 50,
    "parameters": "S1A_IW_GRDH_1SDV_20230408T194947_20230408T195012_048009_05C53C_531A",
    "user": "email.address@email.com",
    "job_start_datetime": "2023-11-09T14:01:47",
    "job_end_datetime": null,
    "links": [
        {
            "href": "https://geodes-portal.cnes.fr/processing/jobs/857dc1c8-7f08-11ee-b4e2-0242ac140169/results?f=html",
            "rel": "about",
            "type": "text/html",
            "title": "results of job None as HTML"
        },
        {
            "href": "https://geodes-portal.cnes.fr/processing/jobs/857dc1c8-7f08-11ee-b4e2-0242ac140169/results?f=json",
            "rel": "about",
            "type": "application/json",
            "title": "results of job None as JSON"
        },
        {
            "href": "https://geodes-portal.cnes.fr/processing/jobs/857dc1c8-7f08-11ee-b4e2-0242ac140169/results",
            "rel": "about",
            "type": null,
            "title": "results of job None as None"
        }
    ]
} ] } ],

```

```

"links":[
  {
    "href":"https://geodes-portal.cnes.fr/processing/jobs?f=html",
    "rel":"alternate",
    "type":"text/html",
    "title":"Jobs list as HTML"
  },
  {
    "href":"https://geodes-portal.cnes.fr/processing/jobs?f=json"
    "rel":"self",
    "type":"application/json",
    "title":"Jobs list as JSON"
  }
]
}

```

### 3) Results retrieval

The command bellow will retrieve the results of a specific job:

```
curl -XGET -H "X-API-Key: $APIKEY" -k "https://geodes-portal.cnes.fr/processing/jobs/JOB_ID/results?f=json"
```

**JOB\_ID** should be replaced!

#### Response:

```

{
  "execution_time": 12087,
  "product_path": "/nfs/GDH_DEV/ci/portal/data/processing/full-
maja/78d357c2-247111ee-b721-0242ac10193c.zip",
  "product_url":"https://geodes-portal.cnes.fr/processing-access-data/full-
maja/78d357c2-247111ee-b721-0242ac10193c.zip"
}

```

### 4) Description of the process

The command below provides a description of the process:

```
curl -XGET -H "X-API-Key: $APIKEY" -k "https://geodes-portal.cnes.fr/processing/processes/full-maja?f=json"
```

#### Response:

```

{
  "version":"0.1.0",

```

```
"id": "full_maja",
"title": "FULL MAJA processing ",
"description": "Application of MAJA processing (Extraction of products with
cloud detection and atmospheric correction) over a defined period for a given
tile.",
"keywords": [
  "PEPS_S2_L1C",
  "INTERNAL"
],
"links": [
  {
    "type": "text/html",
    "rel": "about",
    "title": "information",
    "href": "https://example.org/process",
    "hreflang": "fr-FR"
  },
  {
    "type": "application/json",
    "rel": "self",
    "href": "https://geodes-portal.cnes.fr/processing/processes/full-
maja?f=json",
    "title": "Process description as JSON",
    "hreflang": "en-US"
  },
  {
    "type": "text/html",
    "rel": "alternate",
    "href": "https://geodes-portal.cnes.fr/processing/processes/full-
maja?f=html",
    "title": "Process description as HTML",
    "hreflang": "en-US"
  },
  {
    "type": "text/html",
    "rel": "http://www.opengis.net/def/rel/ogc/1.0/job-list",
    "href": "https://geodes-portal.cnes.fr/processing/jobs?f=html",
    "title": "jobs for this process as HTML",
    "hreflang": "en-US"
  },
  {
    "type": "application/json",
    "rel": "http://www.opengis.net/def/rel/ogc/1.0/job-list",
    "href": "https://geodes-portal.cnes.fr/processing/jobs?f=json",
    "title": "jobs for this process as JSON",
    "hreflang": "en-US"
  },
  {
```

```
        "type": "application/json",
        "rel": "http://www.opengis.net/def/rel/ogc/1.0/execute",
        "href": "https://geodes-portal.cnes.fr/processing/processes/full-
maja/execution?f=json",
        "title": "Execution for this process as JSON",
        "hreflang": "en-US"
    }
],
"inputs": {
    "startDate": {
        "title": "Start Date",
        "description": "Start date of period",
        "schema": {
            "type": "string"
        },
        "minOccurs": 1,
        "maxOccurs": 1,
        "metadata": null,
        "keywords": [
            "start",
            "date"
        ]
    },
    "completionDate": {
        "title": "Stop Date",
        "description": "End date of period",
        "schema": {
            "type": "string"
        },
        "minOccurs": 1,
        "maxOccurs": 1,
        "metadata": null,
        "keywords": [
            "end",
            "date"
        ]
    },
    "tileid": {
        "title": "Tile Id",
        "description": "Tile identifier",
        "schema": {
            "type": "string"
        },
        "minOccurs": 1,
        "maxOccurs": 1,
        "metadata": null,
        "keywords": [
            "tile",
```

```
        "id"
    ]
},
"relativeOrbitNumber":{
    "title":"Orbit Number",
    "description":"Orbit relative number ",
    "schema":{
        "type":"string"
    },
    "minOccurs":1,
    "maxOccurs":1,
    "metadata":null,
    "keywords":[
        "tile",
        "id"
    ]
},
"user":{
    "title":"User email",
    "description":"The email of user which requests process
execution",
    "schema":{
        "type":"string"
    },
    "minOccurs":1,
    "maxOccurs":1,
    "metadata":null,
    "keywords":[
        "user",
        "email"
    ]
},
"notif-email":{
    "title":"Email notification flag",
    "description":"Flag to indicate if an email notification must be
sent after processing termination",
    "schema":{
        "type":"bool"
    },
    "minOccurs":1,
    "maxOccurs":1,
    "metadata":null,
    "keywords":[
        "email",
        "notification"
    ]
},
"timeout":{
```



```
    "title": "Processing timeout in mn",
    "description": "The process is canceled if timeout reached",
    "schema": {
      "type": "int"
    },
    "minOccurs": 0,
    "maxOccurs": 1,
    "metadata": null,
    "keywords": [
      "timeout",
      "processing"
    ]
  },
  "outputs": {
    "result": {
      "title": "Produit de sortie",
      "description": " Le produit en sortie",
      "schema": {
        "type": "object",
        "contentType": "application/json"
      }
    }
  },
  "example": {
    "inputs": {
      "user": "paul.preboist@yahoo.fr",
      "startDate": "2022-08-22",
      "completionDate": "2023-07-20",
      "tileid": "07KFS",
      "relativeOrbitNumber": "45"
    }
  },
  "jobControlOptions": [
    "sync-execute",
    "async-execute"
  ],
  "outputTransmission": [
    "value"
  ]
}
```