

Table: Overview of available parameters for requests to the EOxServer Server (EO-WCS).

| Request Type / Parameter | Description / Subparameter | Value / Example | Mandatory (M) / Optional (O) |
|--------------------------|---|--|------------------------------|
| GetCapabilities | | Request a Capabilities document | |
| • service | Requested service | → WCS | M |
| • request | Type of request | → GetCapabilities | M |
| • version | Version number | → 2.0.0 | O |
| • acceptVersions | Prioritized sequence of one or more specification versions accepted by client, with preferred versions listed first (first supported version will be used) version1[,version2[,...]] | → 2.0.0,1.1.2,1.0.0 | O |
| • sections | Comma-separated unordered list of zero or more names of sections of service metadata document to be returned in service metadata document . Request only certain sections of Capabilities Document section1[,section2[,...]] | → DatasetSeriesSummary → CoverageSummary → Contents → All → ServiceIdentification → ServiceProvider → OperationsMetadata → Languages | O |
| • updateSequence | Date of last issued GetCapabilities request; to receive new document only if it has changed since | → "2011-01-17" | O |
| DescribeCoverage | | Request a coverage metadata document | |
| • service | Requested service | → WCS | M |
| • request | Type of request | → DescribeCoverage | M |
| • version | Version number | → 2.0.0 | M |
| • coverageId | NCName (s): • valid coverageID of a Dataset • valid coverageID of a SticheMosaic | | M |
| DescribeEOCoverageSet | | Request a CoverageDescriptions document | |
| • service | Requested service | → WCS | M |
| • request | Type of request | → DescribeEOCoverageSet | M |
| • version | Version number | → 2.0.0 | M |
| • eoId | • Valid eoId: • using the coverageId of a Dataset • using the eoId of a DatasetSeries • using the coverageId of a SticheMosaic) | | M |
| • subset | Allows to constrain the request in each dimensions and define how these parameters are applied. The spatial constraint is expressed in WGS84, the temporal constraint in ISO 8601. Spatial trimming: • Name of an coverage axis (Long or Lat) Temporal trimming: • phenomenonTime Plus optional either: • containment=overlaps (default) | →Lat,http://www.opengis.net/def/crs/EP SG/0/4326(32,47) →Long,http://www.opengis.net/def/crs/EP SG/0/4326(32,47)&Long,http://www.open gis.net/def/crs/EP SG/0/4326(11,33)&cont ainment=overlaps → phenomenonTime("2006-08-01","2006- 08-22T09:22:00Z") →Lat,http://www.opengis.net/def/crs/EP SG/0/4326(32,47)&Long,http://www.opengi s.net/def/crs/EP SG/0/4326(11,33)&pheno menonTime("2006-08-01","2006-08- 22T09:22:00Z")&containment=contains | O |

| Request Type / Parameter | Description / Subparameter | Value / Example | Mandatory (M) / Optional (O) |
|--------------------------|--|--|------------------------------|
| | <ul style="list-style-type: none"> containment=contains Any combination thereof (but each value only once per request) | | |
| sections | see GetCapabilities | → DatasetSeriesSummary → CoverageSummary → All | O |
| GetCoverage | Request a coverage (for download) | | |
| service | Requested service | → WCS | M |
| request | Type of request | → GetCoverage | M |
| version | Version number | → 2.0.0 | M |
| coverageId | NCName: <ul style="list-style-type: none"> valid coverageID of a Dataset or valid coverageID of a SticheMosaic | | M |
| format | Requested format of coverage to be returned, currently: <ul style="list-style-type: none"> image/tiff image/jpeg image/png image/gif | → image/tiff | M |
| mediatype | Coverage delivered directly as image file or enclosed in GML structure <ul style="list-style-type: none"> not present or multipart/mixed | → multipart/mixed | O |
| subset | Trimming of coverage dimension (no slicing allowed!) <ul style="list-style-type: none"> the label of an coverage axis plus optional either <ul style="list-style-type: none"> pixel coordinates without CRS (→ original projection) with CRS (→ reprojecting) | → x(400,200) → Lat(12,14) → Long,http://www.opengis.net/def/crs/EP SG/0/4326(17,17.4) | O |
| rangesubset | subsetting in the range domain (e.g. Band-Subsetting) | → 1,2,3 | O |
| outputcrs | CRS for the requested output coverage <ul style="list-style-type: none"> not present or CRS | →http://www.opengis.net/def/crs/EP SG/0/3035 | O |
| size or resolution | Mutually exclusive per axis, either: <ul style="list-style-type: none"> integer dimension of the requested coverage (per axis) or resolution of one pixel (per axis) | → size=Long(20) or size=x(50) or → resolution=long(0.01) or → resolution=y(0.3) | O |
| interpolation* | Interpolation method to be used <ul style="list-style-type: none"> nearest (default) bilinear average | → bilinear | O |

* Interpolation: (Resampling options other than NEAREST can dramatically slow down raster processing)

- The default (and fastest) is NEAREST. Replaces the target pixel with its NEAREST Neighbor.
- AVERAGE will compute the average pixel value of all pixels in the region of the disk file being mapped to the output pixel (or possibly just a sampling of them). Generally AVERAGE can be desirable for reducing noise in dramatically downsampled data, and can give something approximating anti-aliasing for black and white linework.
- BILINEAR will compute a linear interpolation of the four pixels around the target location. BILINEAR can be helpful when oversampling data to give a smooth appearance.