CDAS WPS API v. 1.0

This document describes the WPS API v. 1.0 deployed in the
NASA-NCCS-CDS Climate Data Analytic Services (CDAS) framework.

```
http://localhost:9999/wps ?
        version = 1.0.0 &
        embedded = true &
        service = wps &
        request = Execute &
        identifier = cdas &
        datainputs = [
                region = {"longitude": 120.0, "level": 20.0, "latitude" : -40.0};
                operation = {      'kernel':    'time',
                                   'type':       'anomalies',
                                   'domain':  'annualcycle'   };
                data = { "collection": "MERRA", "id": "t" }
                    ]
```

An example WPS service request (utilizing port forwarding to the wps server).

WPS API parameters

Service: Routes the request to the WPS service handler.

Version: Denotes the WPS version.

Embedded: If *Embedded = True* then the analysis result is embedded in the request
response in json format.   Otherwise the result is saved to disk and an access URL is
returned.

Request: WPS request type (*GetCapabilities*, *DescribeProcess*, or *Execute*).

Identifier: Selects the CDAS WPS process.

Datainputs: Inputs (in json format) to the analysis process:

  Data: Climate data inputs to the analysis operation. The *id* parameter denotes a variable name
  and the *collection* parameter denotes a dataset that is described in a serverside configuration
  file.

  Region: Describes the region of interest. Can be 0D, 1D, 2D, or 3D, and can include a grid
  specification.

  Operation: Describes the analysis workflow. The complete syntax of this parameter is yet TBD.
  In the example the 'kernel' parameter selects the *time* kernel which encapsulates a set of
  operators for extracting timeseries from datasets. The 'type' and 'domain' parameters select
  the operation *cdutil.ANNUALCYCLE .departures*.