Spray Underwater Glider

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Instrument Development Group
Sampling pattern
Simple profile

dimensions:
  time = 104 ;
  name_strlen = 14 ;

variables:
  char trajectory(name_strlen) ;
  double time(time) ;
  double lat(time) ;
  float temperature(time) ;
  ...

Profile (Lat, Lon, ...)

Middle of dive

Middle of ascending

Time (Depth)
(single) Trajectory Profile

dimensions:
- depth = 100 ;
- profile = 544 ;
- name_strlen = 8 ;

variables:
- int profile(profile) ;
- char trajectory(name_strlen) ;
- double time(profile) ;
- real depth(profile) ;
- double lat(profile) ;
- float temperature(depth, profile) ;
...
(Ragged) Trajectory Profiles

dimensions:
- depth = 100;
- profile = 33031;
- name_strlen = 8;
- trajectory = 42;

variables:
- int profile(profile);
- char trajectory(name_strlen);
- double time(profile);
- real depth(profile);
- double lat(profile);
- float temperature(depth, profile);
How to handle DOIs?

// global attributes:
  :Conventions = "CF-1.6, ACDD-1.3" ;
  :title = "California Underwater Glider Network" ;
  ...
  :id = "CUGN_line_90_v1" ;
  ...
  :doi = "10.21238/S8SPRAY1618" ;

• Does CF consider DOI?

• Attribute Convention for Data Discovery (ACDD) recommends field id:

  “An identifier for the data set, provided by and unique within its naming authority. The combination of the "naming authority" and the "id" should be globally unique, but the id can be globally unique by itself also. IDs can be URLs, URNs, DOIs, meaningful text strings, a local key, or any other unique string of characters. The id should not include white space characters.”
Spray is an autonomous underwater glider that changes buoyancy in order to profile vertically and glides horizontally on wings. Spray is often piloted to repeat survey patterns or to make many crossings of currents. Spray operations are project driven, usually focusing on regions.