PODAAC_nscat

Nscat level 1.7

1.	FILENAME: S1700414.HDF (ftp link: here) (Filesize=2.8MB)
	It is a HDF4 file. It has 3 datasets and a group. The group has several datasets and two V-datasets.
	There are two pairs of latitude and longitude included in this file (WVC_Lat, WVC_Lon and Cen_Lat, Cen_Lon)
	Which pair should be used for specific data field requires additional information or knowledge
	need to apply 'scale_factor' and 'add_offset' attributes on latitude and longitude
	'units' attribute for latitude and longitude is 'deg' and does not follow CF conventions

Datasets	
DatasetName	#Dimension (DimList)
row (dimension)	1-D (191)
WVC (dimension)	1-D (24)

GROUP1: NSCAT Rev 17	

V-DatasetName	#Dimension (DimList)
SwathIndex	1-D (820)
NSCAT L17	1-D (191)
DatasetName	#Dimension (DimList)
WVC_Lat	2-D (191*24)
WVC_Lon	2-D (191*24)
WVC_Quality_Flag	2-D (191*24)
Cen_Lat	3-D (191*24*24)
Cen_Lon	3-D (191*24*24)
Incidence_Angle	3-D (191*24*24)

	Other Nscat level 1.7 files have similar structure

Nscat level 2

2.	FILENAME: S2000414.HDF (ftp link: here) (Filesize=208KB)
	It is a HDF4 file. It has 3 datasets and a group. The group has several datasets and two V-datasets.
	There are 'Lat' and 'Lon' given. However the names of the lat and lon datasets have 'WVC_' attached to them.
	need to apply 'scale_factor' and 'add_offset' attributes on latitude and longitude

Datasets	
DatasetName	#Dimension (DimList)
row (dimension)	1-D (191)
WVC (dimension)	1-D (24)
position (dimension)	1-D (4)

GROUP1: NSCAT Rev 20	

V-DatasetName	#Dimension (DimList)
SwathIndex	1-D (820)
NSCAT L2	1-D (191)
DatasetName	#Dimension (DimList)

	WVC_Lat	2-D (191*24)
	WVC_Lon	2-D (191*24)
	WVC_Quality_Flag	2-D (191*24)
	Wind_Speed	3-D (191*24*4)

	Other Nscat level 2 files have similar structure

Nscat level 3	

12.	FILENAME: S3096259.HDF (ftp link: here) (Filesize=3.8MB)
	It is a HDF4 file. It has 2 datasets and a group. The group has several datasets and a V-dataset.
	There is no latitude and longitude information from the file
	There is neither a 'Fill_Value' attribute nor a 'missing value' attribute. A value of 0 is possibly used for 'Fill_Value.'

Datasets	
DatasetName	#Dimension (DimList)
row (dimension)	1-D (300)
column (dimension)	1-D (720)

GROUP1: NSCAT Rev 30	

V-DatasetName	#Dimension (DimList)
Lat/Lon	1-D (1)
DatasetName	#Dimension (DimList)
WVC_Count	2-D (300*720)

	Other Nscat level 3 files have similar structure