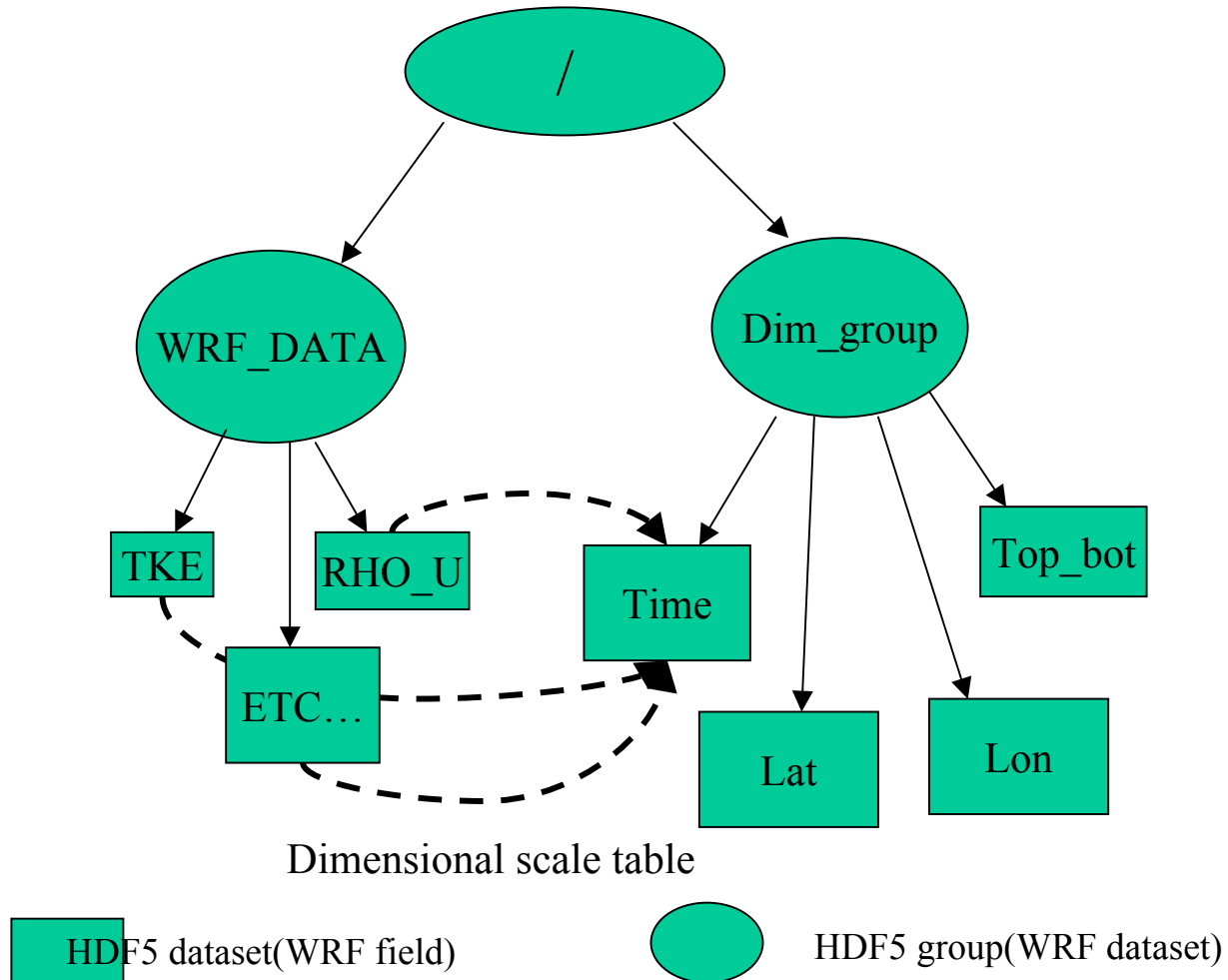


Schematic HDF5 File Structure of WRF Output

WRF has history, restart, initial and boundary dataset type. Each WRF dataset is equivalent to one HDF5 group. Since WRF developers request to store different types of WRF datasets in different files, we store at most two groups inside an HDF5 file: a group containing WRF data, and a group that contains dimensions. TK and U are names of WRF data fields. WRF may not need to use the dimensions group in real applications.



Solid line: HDF5 datasets or sub-groups (the arrow points to) that are members of the HDF5 parent group.

Dash line: the association of one HDF5 object to another HDF5 object in terms of HDF5 object reference

1. Different WRF datasets will output to different HDF5 files.

One WRF dataset represents one domain.

2. Different dataset type(history,restart,initial,boundary) will also output to different HDF5 files.

Solid line represents HDF5 datasets or sub-groups (the arrow points to) that belong to the HDF5 parent group.

Dash line represents the association of one HDF5 object to another HDF5 object;in terms of HDF5, it is called object reference.