

NACP Spatial Data Survey

Spatial Data Survey

- Goal: Establish common map resolutions, projections, and data file formats to facilitate data sharing among NACP researchers.
- NACP Modeling and Synthesis Thematic Data Center (link :<http://nacp.ornl.gov/mast-dc/>) – requested NACP users provide input on formats, resolutions, and projections.
- Limiting the resolutions, projections, and formats to two or three would be most advantageous for MAST-DC

Background

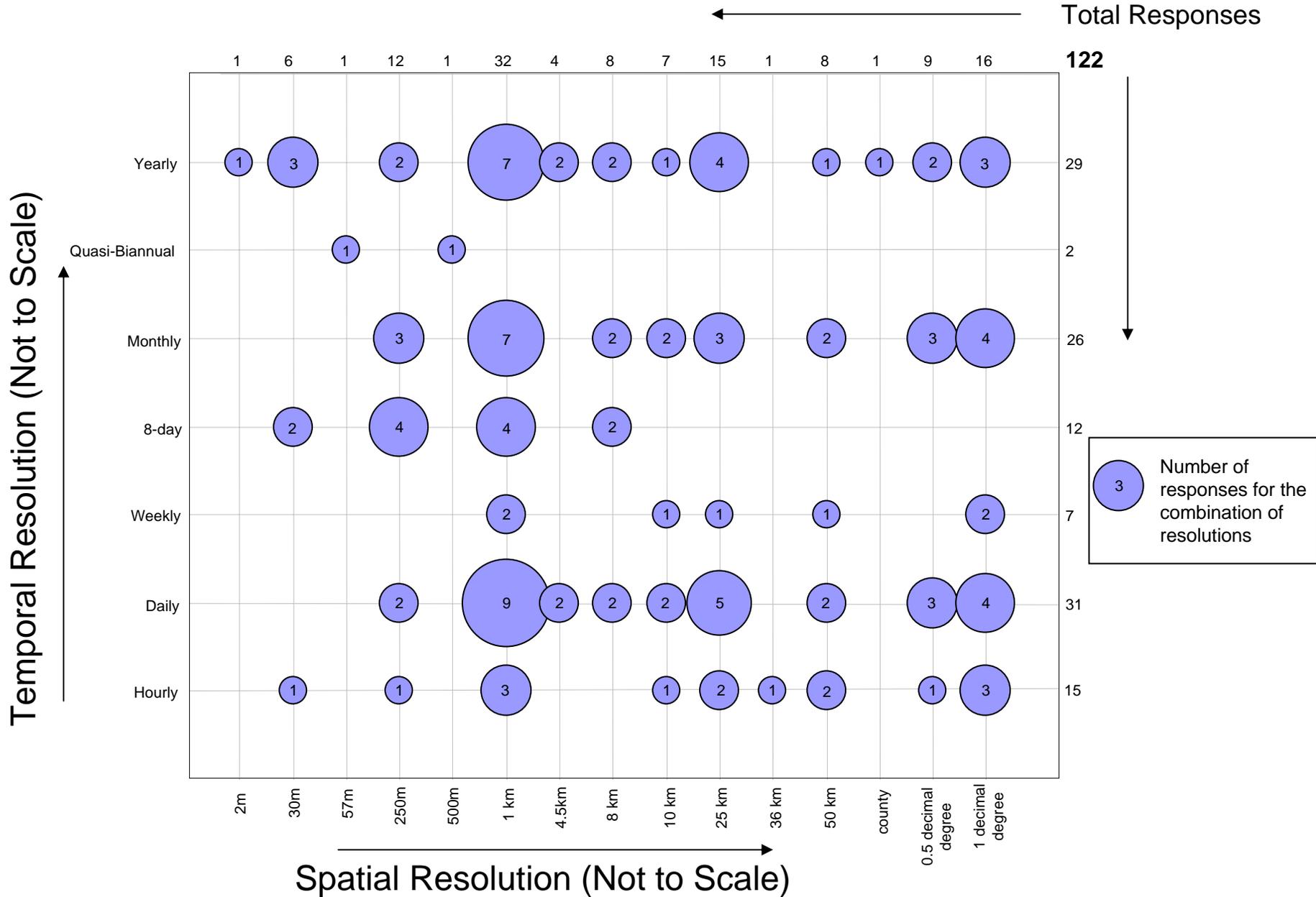
Questions:

- What are the characteristics of spatial data you are planning to use?
- What are the characteristics of spatial data you are planning to share?
- What are the characteristics of spatial data are you expecting others to provide?

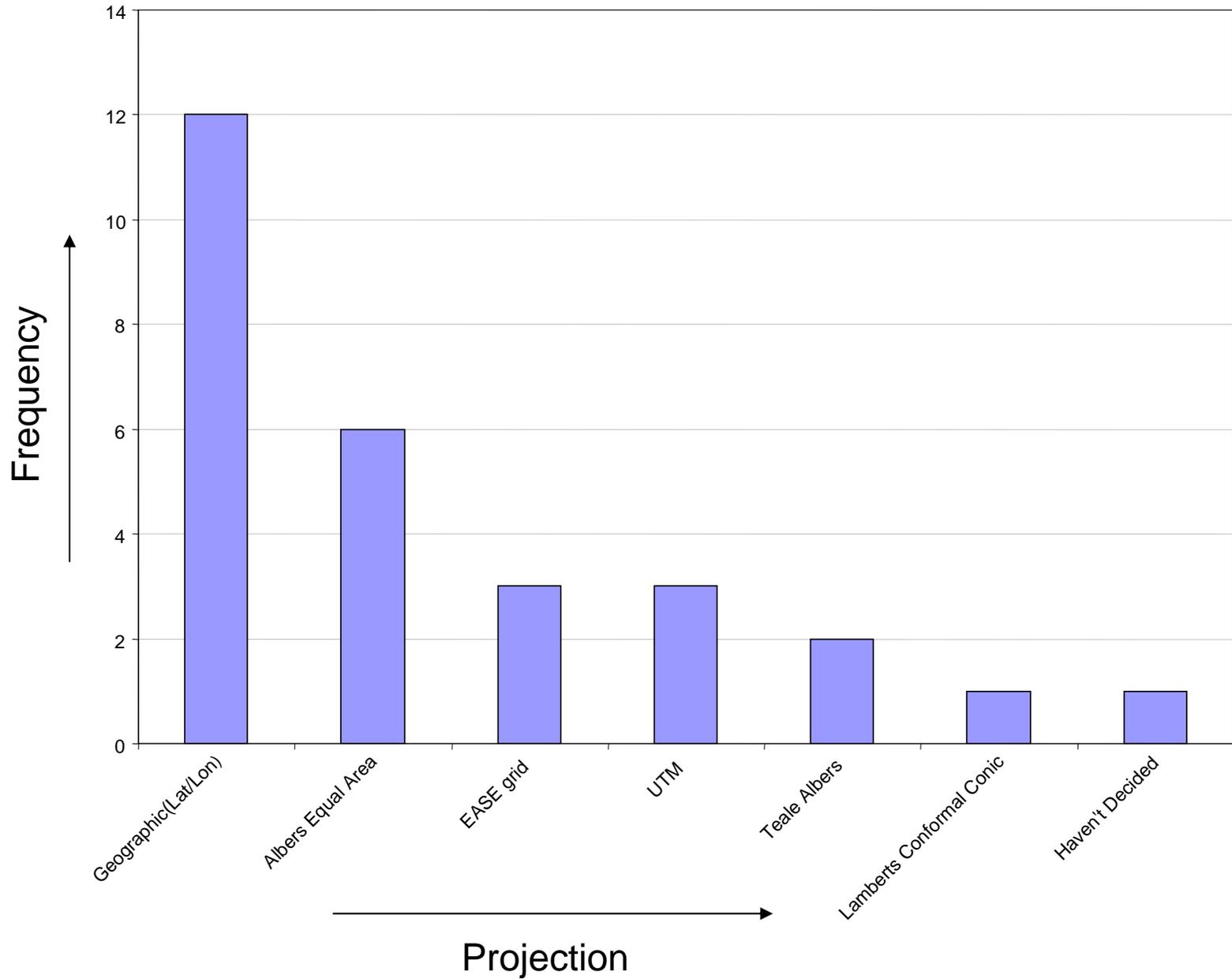
Results

- 24 investigators completed the survey
- Results are provided on-line
 - <http://nacp.ornl.gov/mast-dc/>

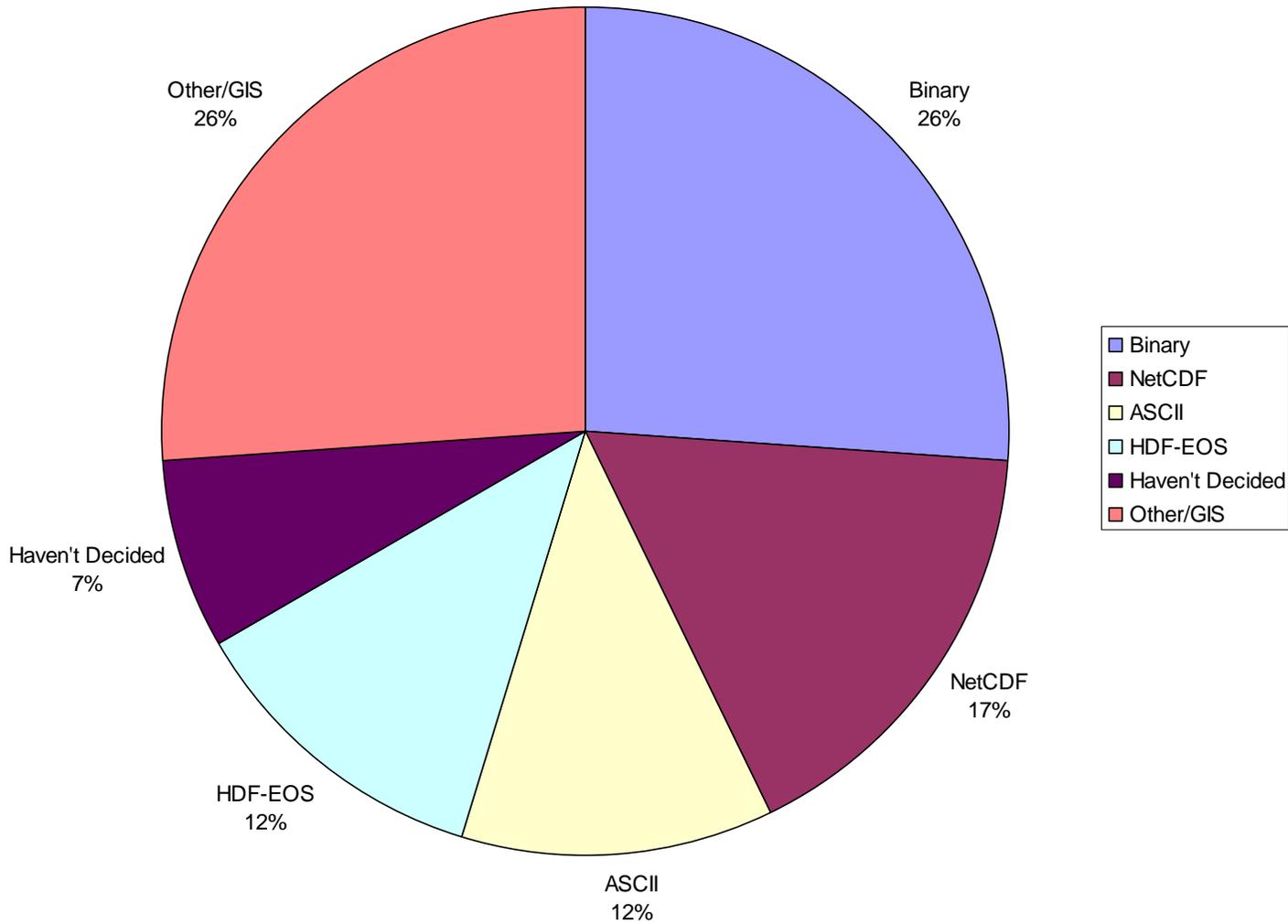
What Spatial and temporal resolution will you use?



What projection will you use?



What format will you use?

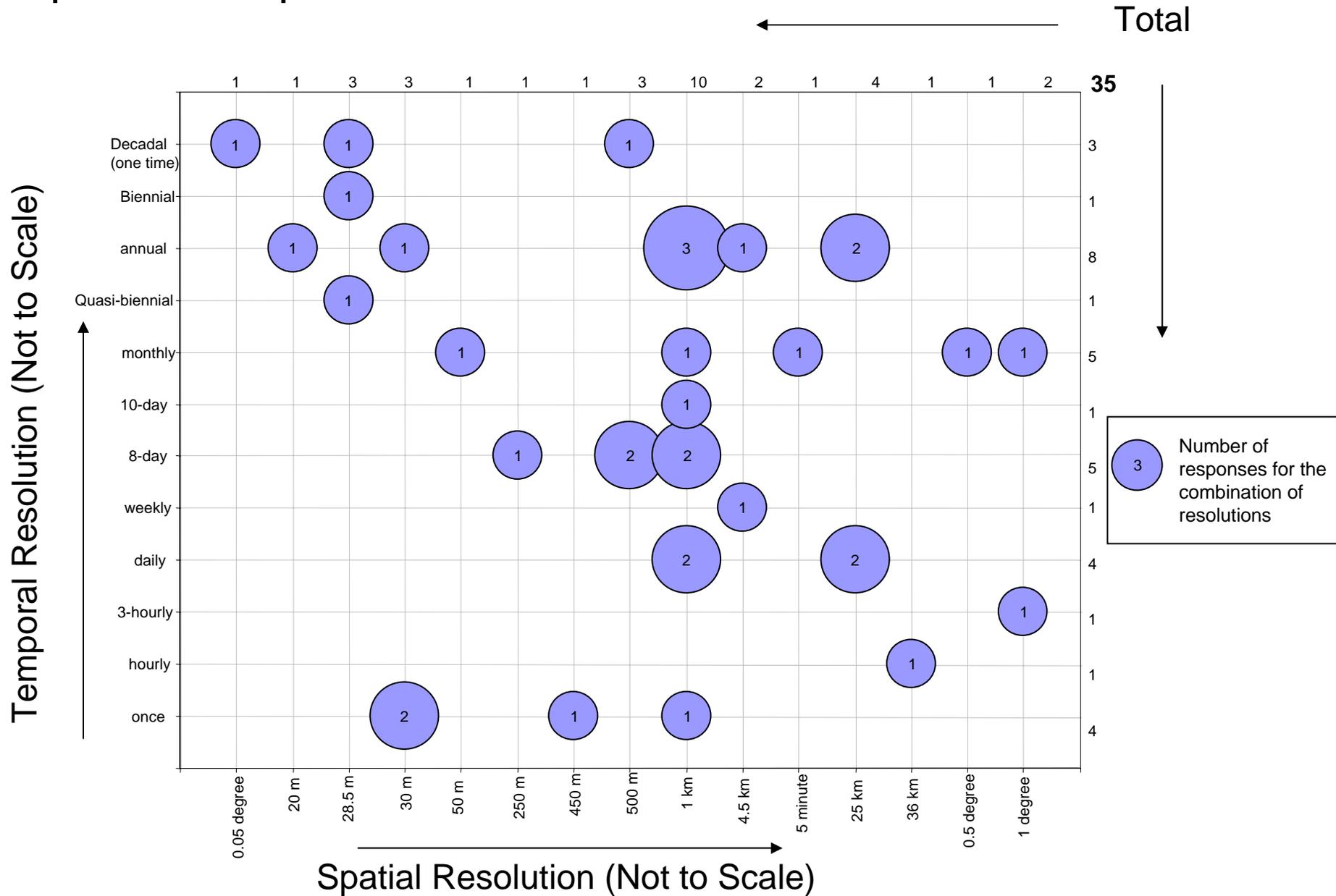


Survey question:

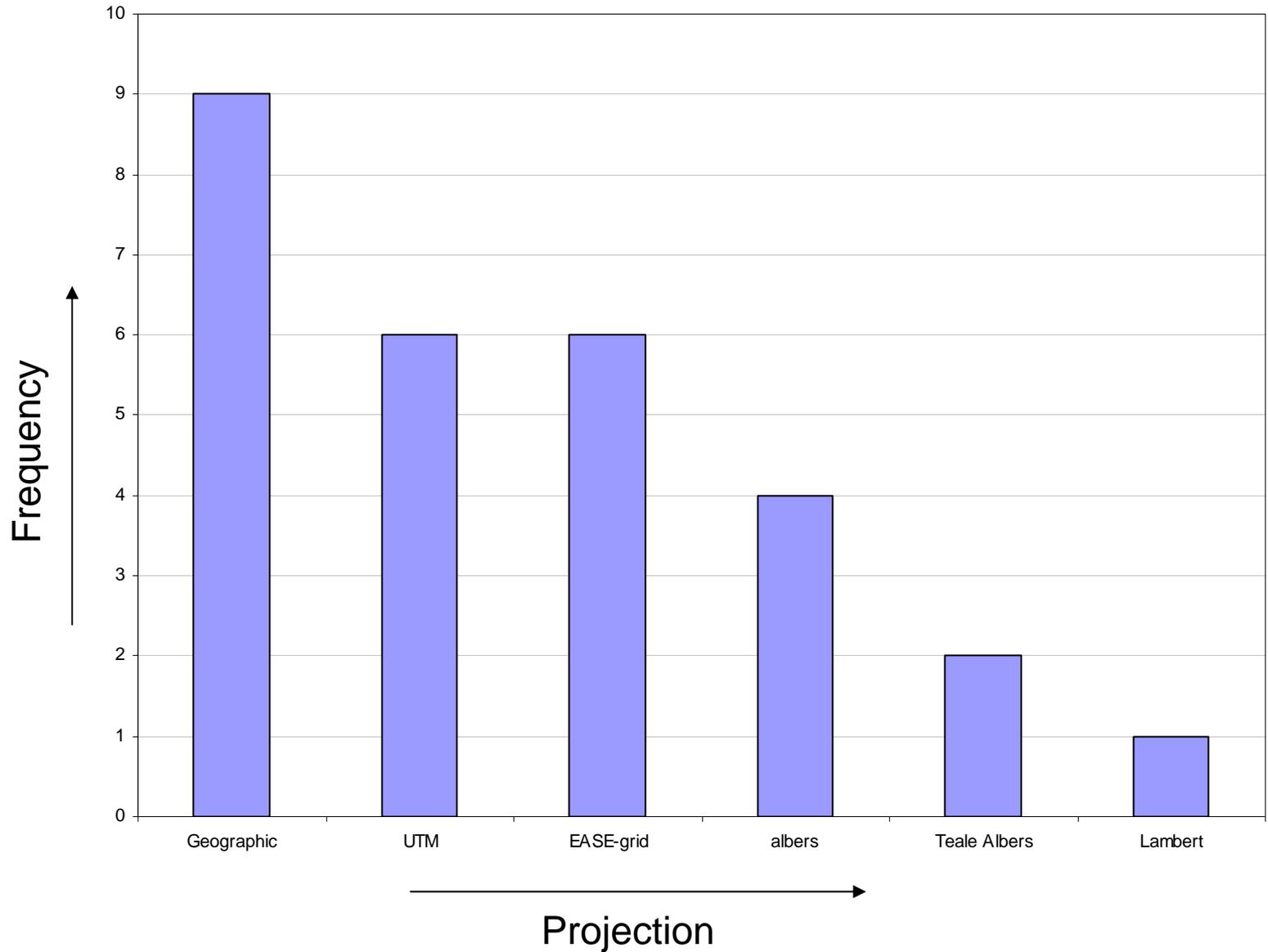
What data products do you have?

- What Data Products will you prepare for shared use?
- What are the characteristics of those data products?
 - Temporal and spatial resolution
 - Projection
 - Data file format

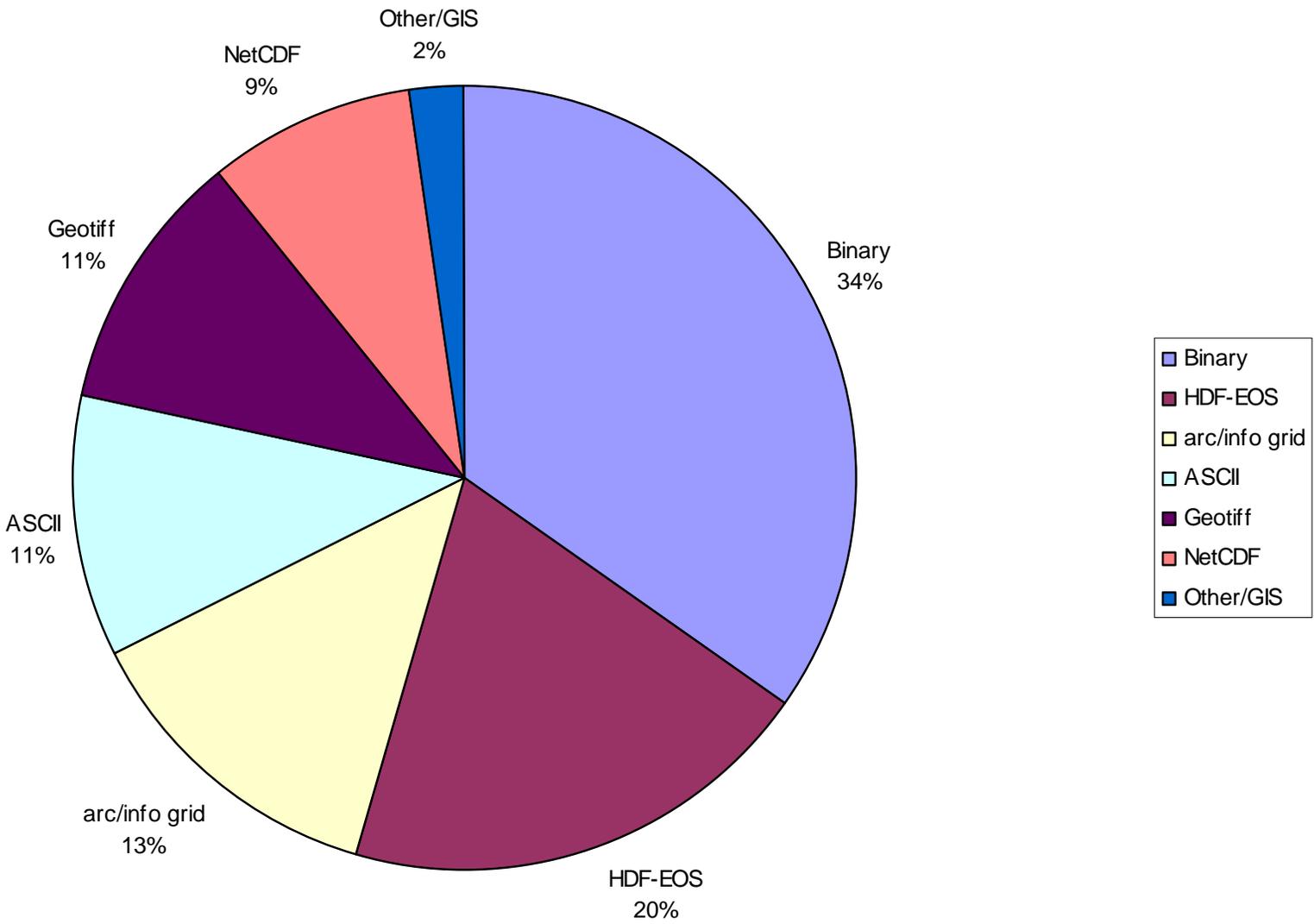
Survey Results: User will provide data with this temporal and spatial resolution



Survey Results: User will provide data products with this projection



Survey Results: User Has Data in this format

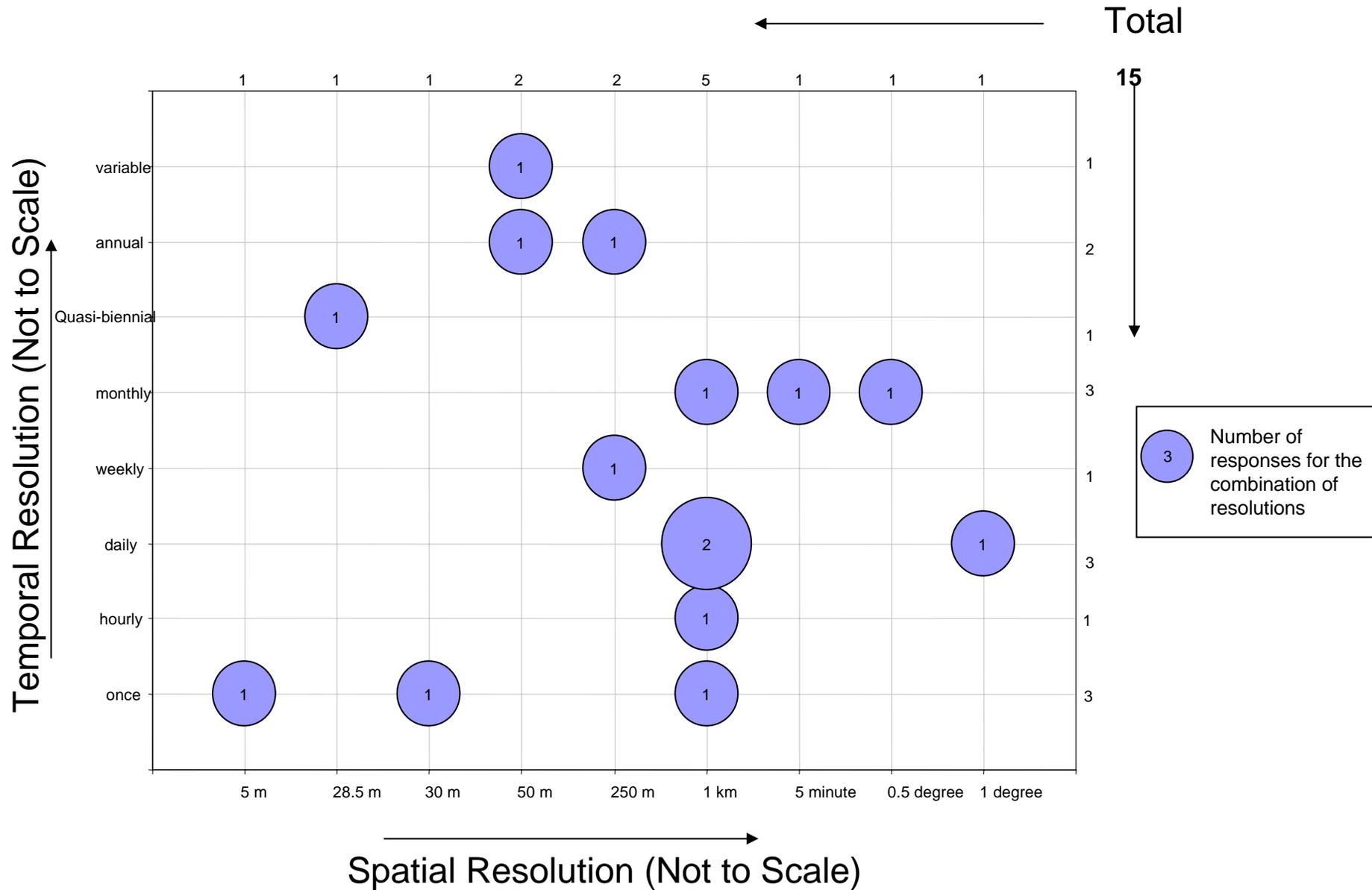


Survey question:

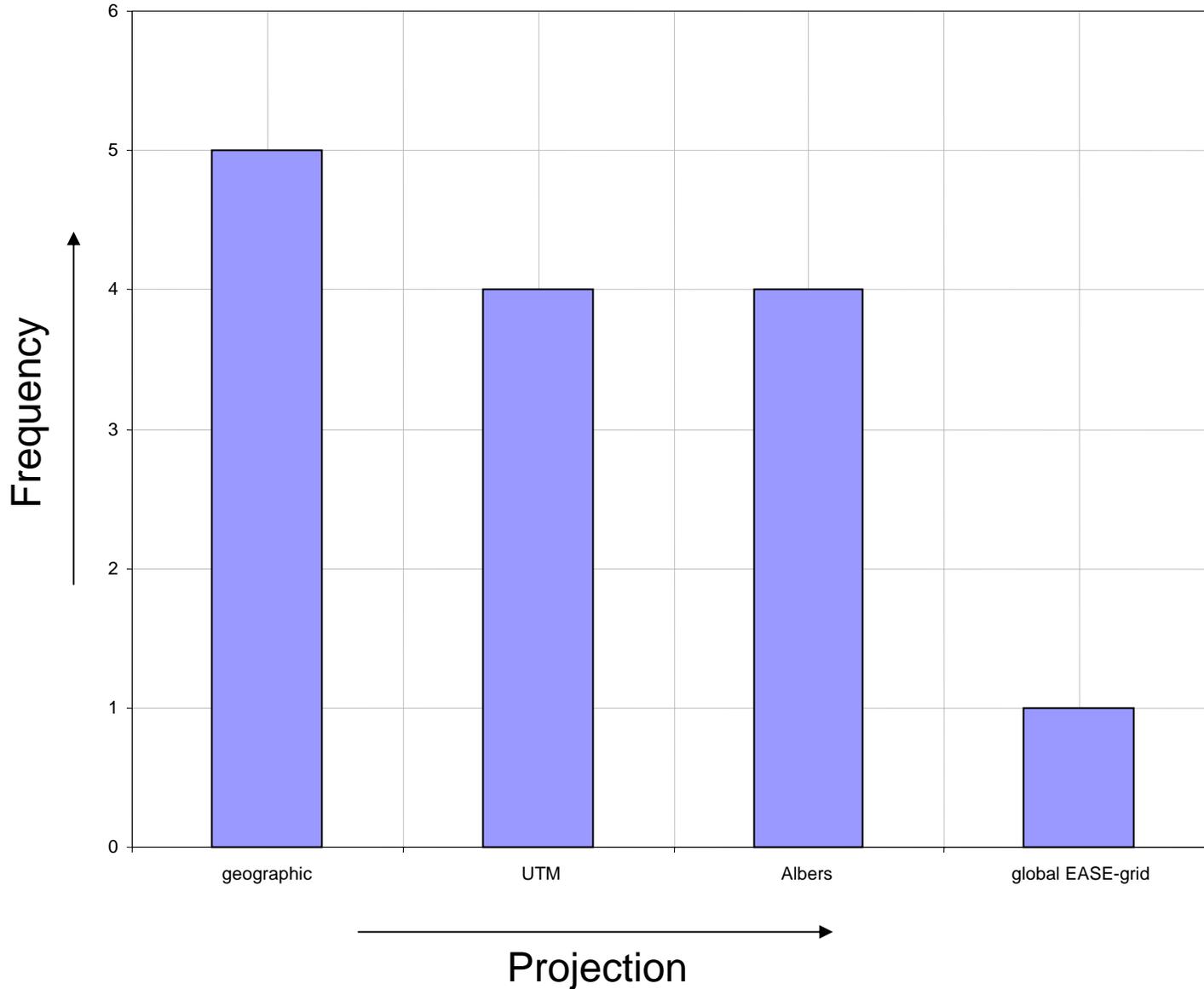
What data products do you want?

- What data products are you expecting others to prepare for your use in NACP?
- What are the characteristics of those data products?
 - Temporal and spatial resolution
 - Projection
 - Data file format

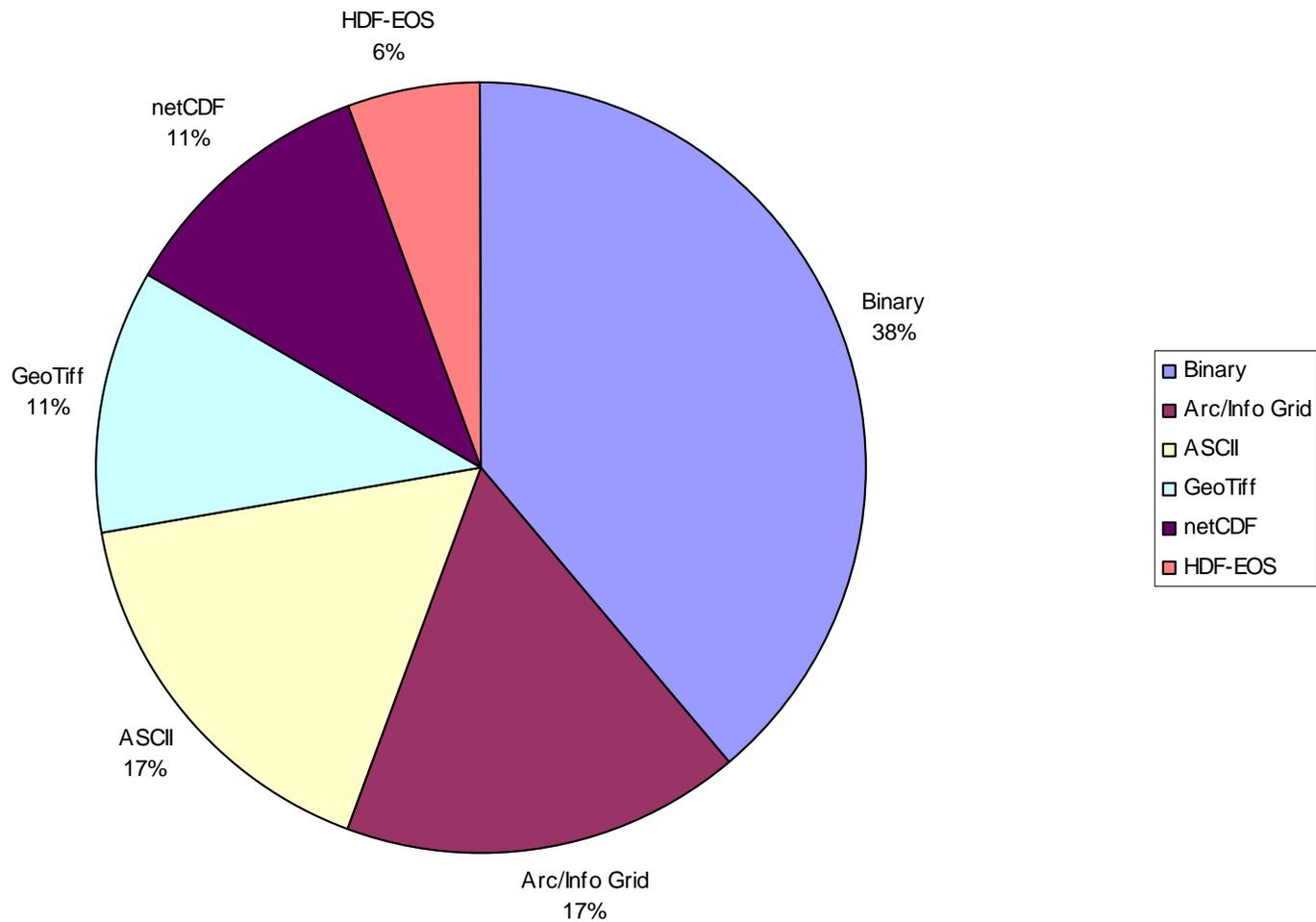
Survey Results: Users would like data products with this temporal and spatial resolution



Survey Results: User would like data with this projection



Survey Results: User would like data in this format



Results of Survey

- Respondents had several different combinations of projections, formats, and spatial temporal resolutions
 - MAST-DC will offer two or three of the most requested and tools to convert to other projections, tools or resolutions
 - Projection
 - Geographic and Albers Equal Area
 - Format
 - netCDF, GIS (GeoTIFF), HDF-EOS
 - Spatial and temporal resolution
 - Variable, depends on the analysis and modeling