

HAL 2001

For use with **ArcVoyager "Point Me"**, engaging the **"US/Reference Map"** display, and the following data sets.

Click ArcVoyager's "Add Theme" button and, one by one, add these from the "GIS for Schools & Libraries CD":

- [CDROM]:\GISDATA\RIVERS\RIVERS.SHP (data source as "Feature")
- [CDROM]:\GISDATA\ELEV48\ELEV48.SHP (data source as "Feature")
- [CDROM]:\GISDATA\IMAGES\US48BIG.TIF (data source as "Image")

On the eve of longterm space travel, to simulate time in space more effectively, the U.S. government has decided on a special project: the High Altitude Lifering (or "HAL"), scheduled for construction in 2001. The leader of the project has learned that you have access to powerful geographic data, tools, and skills, and wants you to find the best place to put the HAL 2001, according to these factors:

1. In order to acquire the site easily, it must be entirely on a U.S. military reservation.
2. To simulate the stress on breathing, the site must have a local elevation of at least 800 meters.
3. To provide sufficient space, the site must be a perfect circle of at least 5 mile radius.
4. To provide sufficient support personnel, the site's center must be in a county of at least 250 per square mile and within 10 miles of a city of at least 250,000
5. There must not be any rivers running through the site, and it should be fairly flat, but it is ideal if there is some nearby rugged terrain for hiking.

Where can the HAL 2001 be built?

Latitude _____

Longitude _____