Problem 1.

Link: http://coseenow.net/visual-ocean/files/2011/06/110602.153.comp_.lnt_.jpg
It's objective is to show where it is cold and hot on sea and it's audience is people who want to know the temperature. The map successfully conveys its information. When you want to show for instance temperatures a rainbow color map is a good scheme to use.

Problem2.

In Google maps it is easier to recognize buildings because they color the buildings slightly lighter then the surroundings (property of color), so it makes a distinctive difference between land and buildings.

The both make clear routes, but in Google maps it is easier to orientate where you are because of it use of colors which makes it easier to recognize parks buildings ect. Google maps is a overall a better visualization, because it makes better use of color in the surroundings on the map.