a. Which other hydroclimatic changes reported in the article and not discussed above?

Major shift of the hydrological regime in the entire Rhine basin.

b. Can you detect three assumptions made by Middelkoop et al. (2001)?

Three assumptions made by Middelkoop et al. (2001):

1. In the Alpine area, higher temperatures will reduce the amount of snow accumulation during winter. This results in higher winter discharge, and lower summer discharge. In addition, winter precipitation increases, while precipitation may decrease in some summer months. Higher temperatures will intensify evapotranspiration, particularly during summer. On an annual basis, this increase is larger than the precipitation increase, resulting in a reduction of annual runoff.
2. In the German Middle Mountains, the investigated catchments demonstrate only a minor seasonal shift in river flow. The changes in runoff are controlled by the balance between increased precipitation on the one hand, and increased evapotranspiration rates due to higher temperatures on the other hand. Peak flows resulting from heavy rainfall and convective thunderstorms, however, are expected to increase.
3. In the lowland area, increased winter precipitation will cause higher winter discharge and winter peak flows.

d. Why Middelkoop and his colleagues made this study? Why is it important? For example, the reason for searching for a way to the Orient was that Ottoman Empire monopolized the trade routes across Asia.

The official report identifies many economic and environmental reasons. Most of the research focuses on the following areas:

1. Winter Sport in the Alps
2. Flood Defense
3. Inland navigation
4. Hydropower Generation
5. Water Availability for Industry, Agriculture and Domestic Use
6. Floodplain Development

e. Are there other studies that have a similar analysis over Rhine, or a similar hypothesis in other regions? (hint: use google scholar or web of science/scopus).

Yes, there are similar studies, for example:

Statistical trend analysis of annual maximum discharges of the Rhine and Meuse rivers F.L.M. Diermanse, J.C.J. Kwadijk, J.V.L. Beckers\* and J.I. Crebas

f. Is there any evidence in the news about low or high flow events of Rhine since 2000?

There are many articles on this topic in the news, for example:

“Europe’s Most Important River Is Running Dry”  
<https://www.bloomberg.com/news/articles/2019-01-18/europe-s-most-important-river-is-running-dry>

“Rhine water levels hit 10-month high, with mixed impact on distillates”  
<https://www.hellenicshippingnews.com/rhine-water-levels-hit-10-month-high-with-mixed-impact-on-distillates/>