**Answers-sheet** **Computer Exercise:**

**Estimate impact of ENSO on drought hazard for Kenya**

Name:

Student-number:

**2: Loading and inspecting the input data**

**Figure 1:**

**Question1**: Briefly explain what we see in the figure 1.

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**3: Calculating meteorological drought conditions using the Standardized Precipitation Index**

**Question 1:** Discuss whether the presented p-value is sufficient. What hypothesis does the K-S test actually tests?……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

**Question 2: Explain in words what information you can learn from these two figures? For example, why is the Gamma distribution increasing sharply at low values compared to the standard normal distribution?**

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Figure 2:

**Question 3: What is your interpretation of the results in the cell above? (also insert figure)**

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**Question 4:** Find out if ENSO is indeed significantly influencing drought in Kenya? (insert screenshot of the code you used to answer this question).

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Figure 3:

**Question 5**: Interpret the spatial map with correlation coefficients.

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**Bonus Question 6:** Create a correlation plot for each seperate season.

Figure 4:

**Bonus Bonus Question 7: plot the SPI for each season during El Nino and La Nina years.**

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Figure 5 (El Nino):

Figure 6 (La Nina):