This paper presents a study of historical trends in reservoir storage on a national scale using a new dataset that provides historical operational data for reservoirs across the US. The seasonal and annual behavior of storage reservoirs across different regions were considered throughout the paper. While the new dataset, accompanied by the analysis of this research offers valuable insight into the subject, I still think that there are major issues that must be addressed before this paper is ready to be published. These issues are as follows:

- There exist many grammatical and dictation mistakes which suggest that the paper is rushed, and not enough time has gone into the revision and polishing process. In addition, there are many general terms used in the text that should be explained in more details. Some of these mistakes and general terms are mentioned in the minor comments.
- Considering that a major part of the analysis is statistical, I think that preprocessing of data should be explained in more details. For instance, how outliers were chosen, and how plentiful they were. What is the percentage of missing data that is calculated by linear interpolation? Or explaining Sen’s slope in more details and explaining why 0.1 value was chosen to signify a significant trend? In addition, you may consider using a larger number of distributions rather than GEV. Some of the points are also mentioned by line in minor comments.
- The results and discussion are mostly limited to identifying trends in reservoir storage using different metrics. There should be a much deeper focus on what is the implication of these trends, seasonality, and uncertainty in storage for water resources engineers and planners, and elaborate on how the insight from this research helps them to better understand the risks involved with a reservoir storage management and better prepare for the uncertain future.
- Does using the drought index for reservoirs that are designed for flood control provide any valuable insight? I think that it would be better to consider how trends in reservoir storage in humid regions affect the ability of reservoirs to control flooding, especially for extreme events.
Minor comments:

Line 28-30: Grammatically incorrect: based ‘on’ various remote sensing ...

Line 32: You are mentioning that you have also used ‘release’ data to study the historical behavior of reservoirs, while in practice, you did not use the release data in your analysis.

Line 38: Grammatically incorrect: There are 2,000 large dams ‘that’ are spread out across the US

Line 25-38-132: In line 25, large dams are defined as having a capacity larger than 10 \( km^3 \), while in line 38, the value is equal to 0.1 \( km^3 \). Also in line 132, the values that define large dams in 0.01 \( km^3 \). Which one is the better definition of large dams?

Line 49:50: It is better to not use ‘in fact’ and ‘finally’ in the same sentence. You also mentioned ‘water supply’ in the previous sentence and are repeating it again here.

Line 54: Please explain how dams can decrease the severity of extreme events in one or two sentences. In line 74-75, it is also mentioned that reservoirs can increase the drought duration.

Line 63: How have dams changed the run-off regimes? Please explain in more details.

Line 65: What type of system? Please be a little clearer.

Line 57: Grammatically incorrect. I think that the word ‘promote’ can be removed.

Line 68: Grammatically incorrect. Use ‘have’ instead of ‘has.’

Line 71: Disrupt how?
Line 72-74: The sentence is not clear. Two ‘increase’ in one sentence.

Line 93-94: The sentence is grammatically incorrect.

Line 112: There are two ‘is’ in a sentence.

Line 114-115: What do you mean by ‘reservoir dynamic’? I think that you can be more precise about it.

Line 119: What trend?

Line 123-126: Again, you are using general terms such as ‘reservoir patterns’, and ‘regional dynamics’. I think that you should be more specific in defining these terms.

Line 150: What do you mean by ‘hydrologic boundaries’?

Line 168-170: How plentiful were the outliers which suggested values higher than the storage capacity? And how much higher were they compared to the capacity?

Line 170: What was the average period of gap in the data? For instance, did you use the interpolation for a large gap of data, to the extent that interpolation may become irrational?

Line 177: I suggest using ‘received little impact’ instead of ‘had little impact’.

Line 187: Please explain the ‘Fraction Filled’ in a few sentences before introducing the formula.

Line 208: Please briefly explain ‘Sen’s slope’.
Considering that you are using daily streamflow values, and not annual maxima, you should consider more than one distribution to find the best fit to the data. Or at least, you must use tests such as 'Kolmogorov–Smirnov test' to ensure that the probability distribution is decently representing the data.

SSI values 'can' be calculated ...

I think it is better to write the formulation for both conditions of P being larger or smaller than 0.5.

What do you mean by 'reservoir setting'?

'dominate'

Hydroelectricity reservoirs are most common 'in' the Tennessee Basin and South Atlantic.

The statement does not seem true. Based on the Figure 2, the lower Colorado river has a very small month-to-month variation.

'is' shown in Figure 2.

This statement does not seem correct based on the Figure 2.

Note' that ...

For the figure 2, I think that in addition to the black line that shows the median Fraction Filled and purple shadow that shows maximum minus minimum, you can also add 95% confidence intervals (maybe as dashed lines) to make sure that an extreme outlier (minimum or maximum) does not greatly impact the shadowed purple part.
Line 378: It is mentioned that operational variance provides a more holistic measure compared to the operating range. However, I am not convinced why you had to use both metrics for the analysis. If variance is better, why using operating range? Does each one of them provide a separate vision that justifies using both? Otherwise, it might be better to use only one of them to avoid extra confusion.

Line 201 and 347: In line 201, it says that region with more than 40% of storage coverage are considered, while line 437 suggest the value as 50%. Which one is correct?

Line 438: Why October? Please explain the reason for choosing this month.

Line 514: On both regional and ....‘a’ is extra.

Line 656: 83% ‘of’ regions ...

Line 658-659: The sentence is grammatically incorrect.