Algorithm to determine the Onset Data for a given season using by ACMAD.

Input: Historical Station Data, Analogue Years, Season

Output: Profile Graph, Onset Date by Year Data Frame

Begin:

- -Compute the daily mean (Using long time series)
- -Compute the cumulative sum of the daily mean
- -Compute 125% and 75% cumulative sum of the daily mean

If (Maximum cumulative sum of the daily mean >100mm)

- Determine the mean onset date using the cumulative sum of the daily mean (Where it reach 50 mm).
- Determine the late onset and earlier onset using 75% and 125% cumulative sum.
- Using Analogue years and current years
 - 1. Start the cumulative sum 30 days before the mean onset date for all the analogue and current year.
 - 2. Determine the mean onset for the analogue years where cumulative reach 50mm
 - 3. Check if cumulative sum of the current year is greater than 50mm
 - The season started then determine the onset date
 - 4. If the cumulative sum of the current year is less than 50mm
 - The onset date is unknown (N/A) then the station is on onset forecast state.

End.