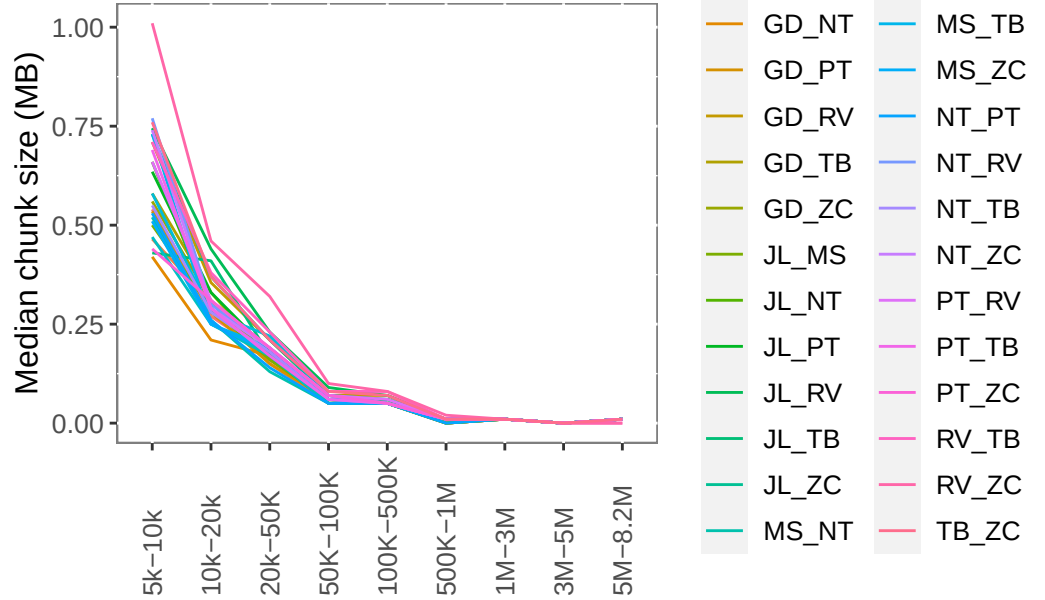he median chunk size as the number of markers is increased