

Analysis of oil

2019-03-25

Data Prep

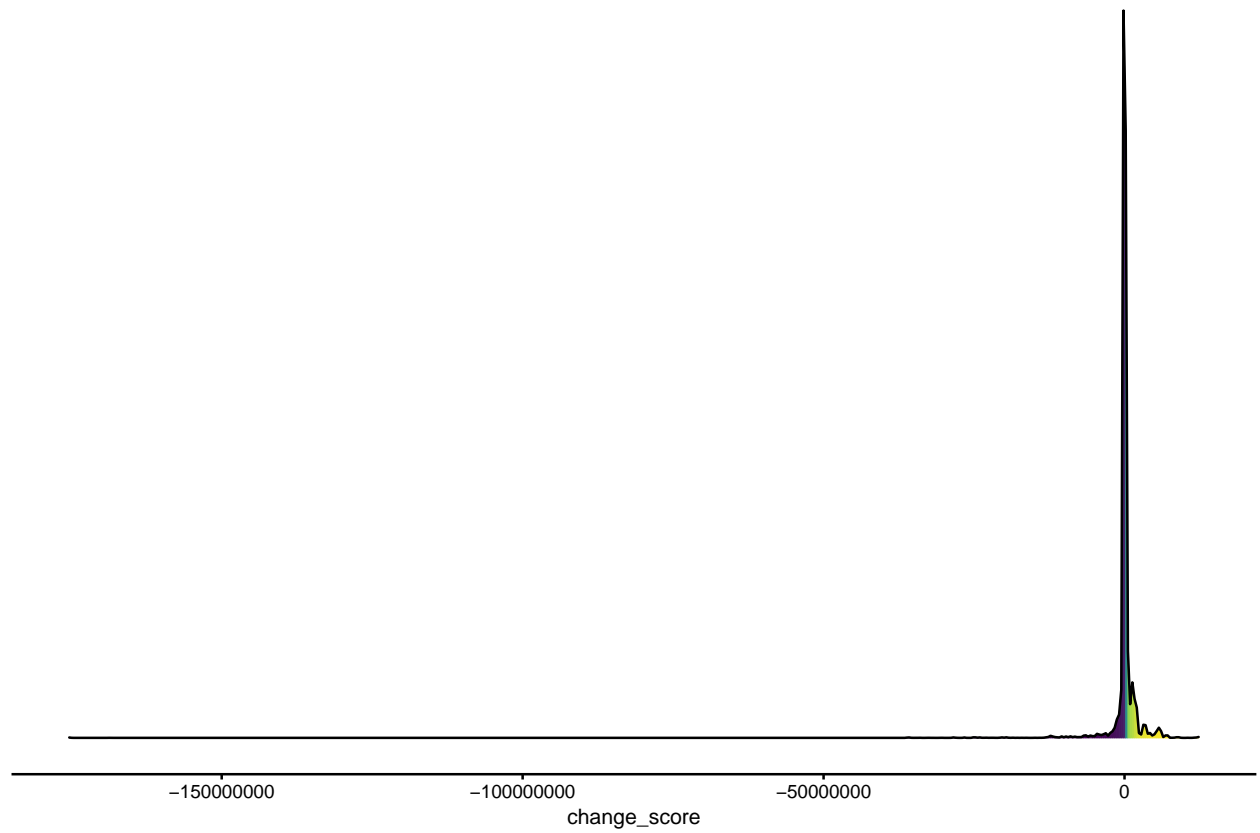
1. Dropped records with missing oil values at t1 and t2. Call the resulting data set `df`.
2. Separated `df` into two subsets:
 - `df_tiny`: oil < 1000 at t1 or t2.
 - `df_main`: oil >= 1000 at t1 and t2
3. Created long-format version:
 - `df_long`: long-format version of the full set `df`
 - `df_tiny_long`: long-format version of the subset `df_tiny`
 - `df_main_long`: long-format version of the subset `df_main`

Analyze the full set `df`

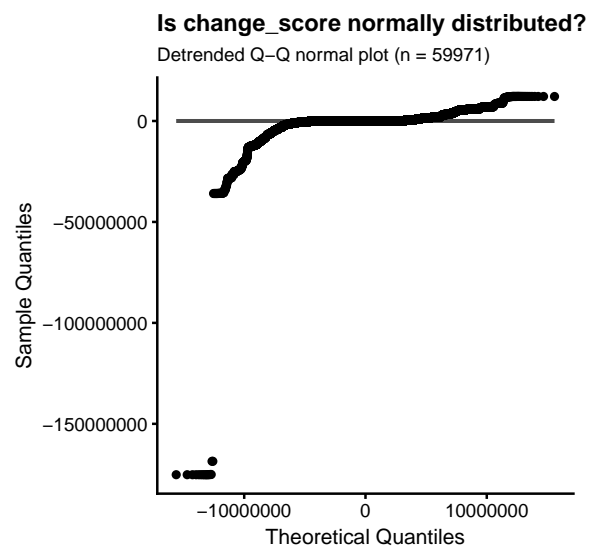
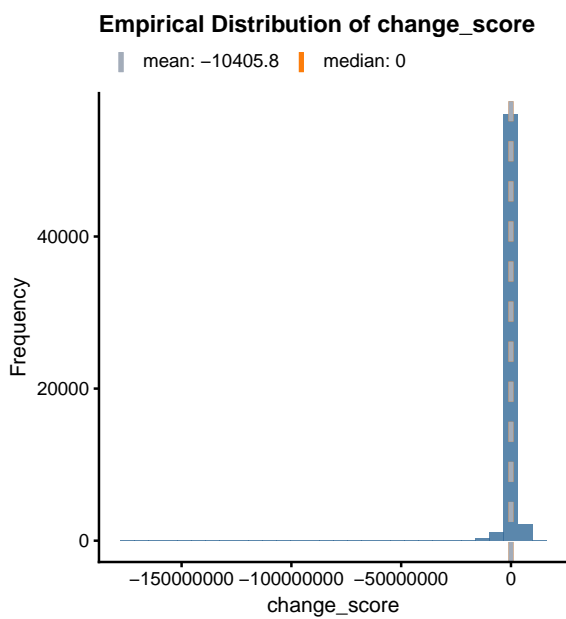
Table 1: Sample Summary Statistics of oil

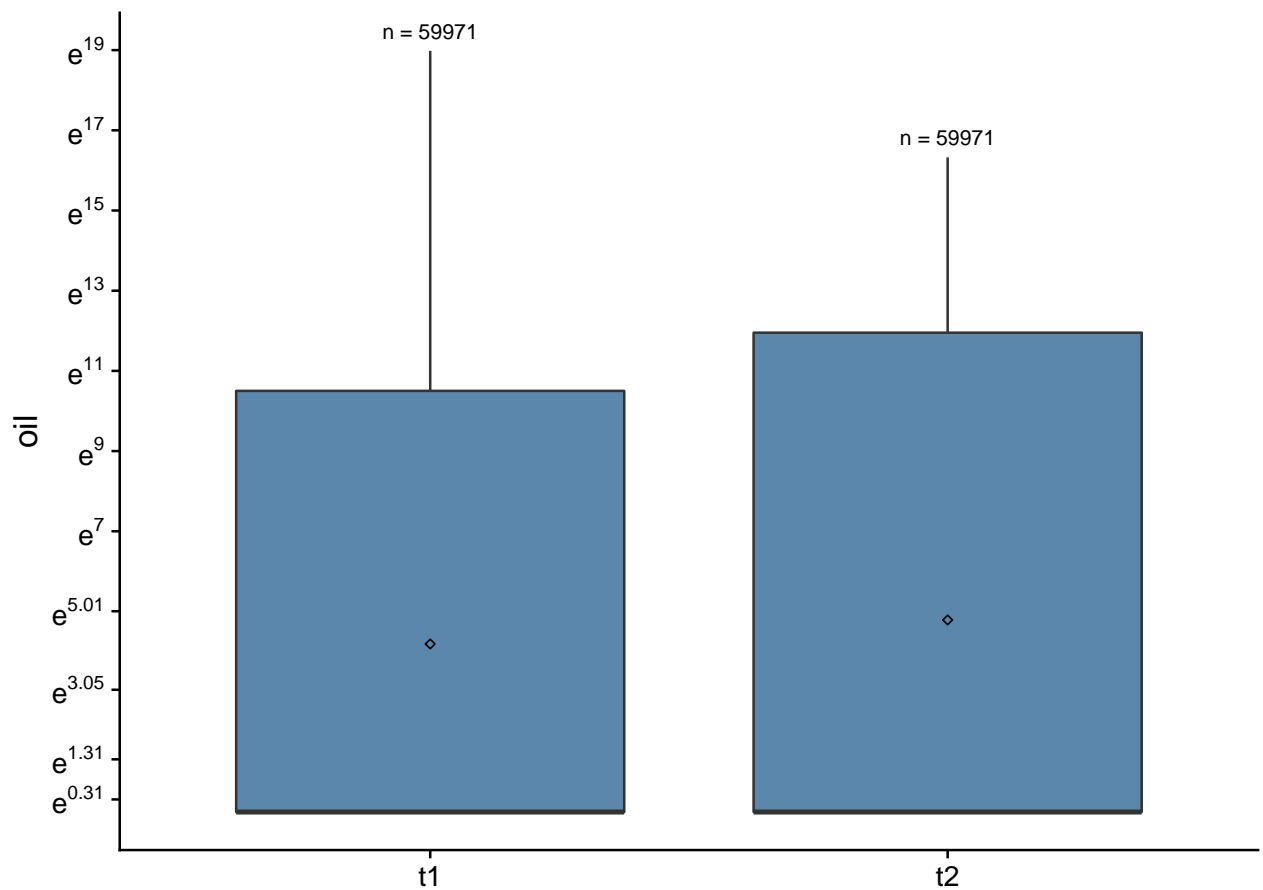
time	n_tribes	n	mean	SEM
t1	184	59971	444552.9	14261.741
t2	184	59971	434147.1	4898.684

oil



NAs were dropped





NAs were dropped

1-way Repeated Measure ANOVA Output:

Error: tribe

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Residuals	183	54861717447793800	299790805725649		

Error: tribe:time

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
time	1	3246849589998	3246849589998	0.025	0.875
Residuals	183	24075923142606936	131562421544300		

Error: Within

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Residuals	119574	738877222967341440	6179246516528		

