

Combining leatherback satellite tracks from Aug 2019- Aug 2020 with SST data from nceiPH53sstd1day using R

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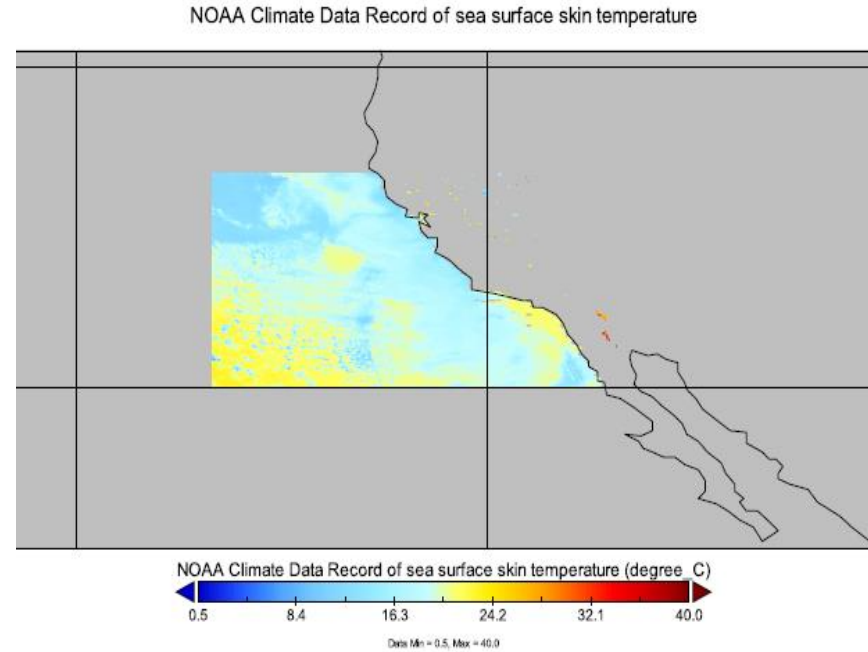
A



```
pkgTest <- function(x)
{
  if (!require(x,character.only = TRUE))
  {
    install.packages(x,dep=TRUE)
    if(!require(x,character.only = TRUE)) stop(x, " :Package not found")
  }
}
list.of.packages <- c("ncdf4", "rerddap", "plotdap", "parsedate",
  "graphics", "maps", "mapdata", "RColorBrewer", "ggplot2", "gifski",
  "png", "rerddapXtracto")
pkges = installed.packages()[, "Package"]
for (pk in list.of.packages) {
  pkgTest(pk)
}
lbtrack <- read.csv("LB 2019.csv")
xcoord <- lbtrack$Longitude
ycoord <- lbtrack$Latitude
tcoord <- lbtrack$Date
dataset <- 'nceiPH53sstd1day'
dataInfo <- rerddap::info(dataset, url= "https://coastwatch.pfeg.noaa.gov/erddap/")
dataInfo
```

```
parameter <- 'sea_surface_temperature'
xlen <- 0.2
ylen <- 0.2
lbsst <- rxtracto(dataInfo,
  parameter= parameter,
  xcoord=xcoord, ycoord=ycoord,
  tcoord=tcoord, xlen=xlen, ylen=ylen)
```

B



C

DeployID	Ptt	Instr	Date	Type	Quality	Latitude	Longitude	Long360
176950	176950	Mk10	9/20/2019 22:41	FastGPS	7	37.5675	-122.592	237.4082
176950	176950	Mk10	9/20/2019 23:39	Argos	1	37.51	-122.604	237.3961
176950	176950	Mk10	9/20/2019 23:56	FastGPS	8	37.5151	-122.615	237.3854
176950	176950	Mk10	9/21/2019 1:01	FastGPS	8	37.489	-122.664	237.3356
176950	176950	Mk10	9/21/2019 1:24	Argos	3	37.4725	-122.683	237.3168
176950	176950	Mk10	9/21/2019 1:54	Argos	2	37.4578	-122.688	237.3121
176950	176950	Mk10	9/21/2019 2:01	Argos	1	37.4584	-122.683	237.3174
176950	176950	Mk10	9/21/2019 2:02	FastGPS	6	37.4603	-122.698	237.3024
176950	176950	Mk10	9/21/2019 3:18	FastGPS	8	37.4412	-122.737	237.2627
176950	176950	Mk10	9/21/2019 3:20	Argos	2	37.4465	-122.76	237.2398
176950	176950	Mk10	9/21/2019 3:20	Argos	2	37.4402	-122.742	237.2585
176950	176950	Mk10	9/21/2019 3:38	Argos	3	37.438	-122.73	237.2696
176950	176950	Mk10	9/21/2019 3:38	Argos	2	37.439	-122.734	237.2663
176950	176950	Mk10	9/21/2019 4:05	Argos	1	37.4299	-122.765	237.2346
176950	176950	Mk10	9/21/2019 4:23	FastGPS	8	37.4249	-122.765	237.2353
176950	176950	Mk10	9/21/2019 4:34	Argos	B	37.4243	-122.779	237.2212

*Unpub. data Scott Benson et al.



Error in req_time_index[i] <- which.min(abs(udtTime - temp_time)) : replacement has length zero

