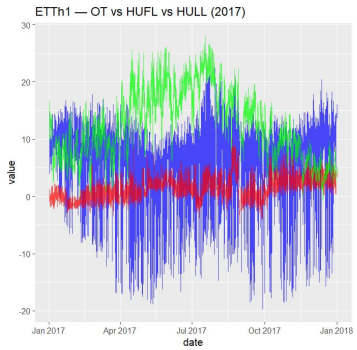
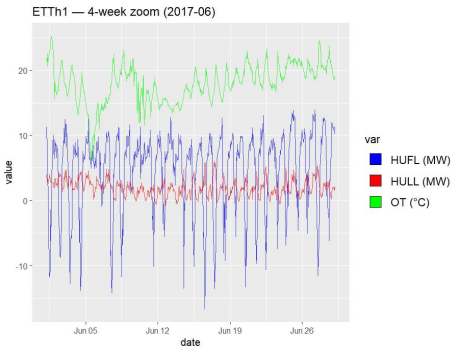
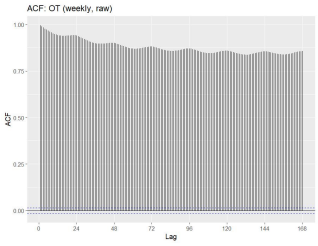
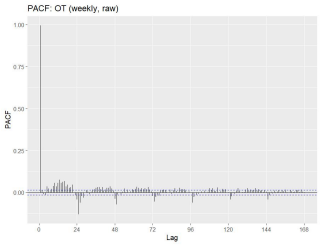
Electrical Transformer Dataset





OT Series ACF / PACF



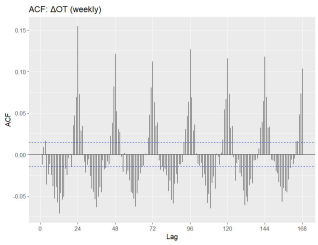


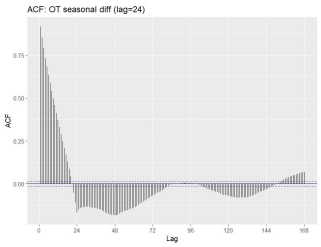
> eacf(ot_ts)

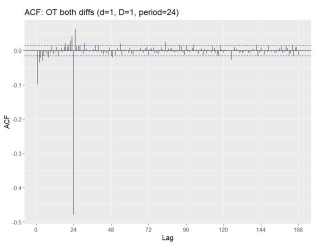
AR/MA

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1	o	o	x	x	x	o	x	x	x	x	x	x	x	x
2	x	o	o	x	o	o	o	o	o	o	o	x	x	o
3	x	x	o	x	o	o	o	o	o	o	o	x	o	o
4	x	x	x	x	o	o	o	o	o	o	o	x	o	o
5	x	x	x	x	o	o	o	o	o	o	o	o	o	o
6	x	x	x	x	x	o	o	o	o	o	o	o	o	o
7	x	x	x	x	x	x	o	o	o	o	o	o	o	o

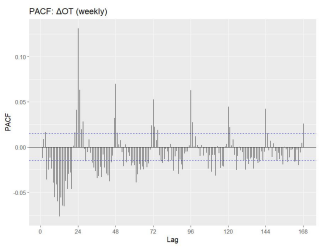
OT Series ACF diff / seasonal diff / both

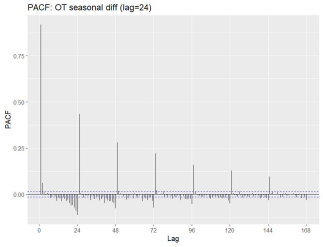


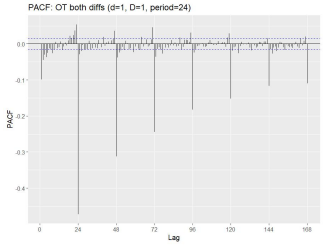




OT Series ACF diff / seasonal diff / both







OT Series EACF diff / seasonal diff / both

> eacf(ot_diff1)

AR/MA

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	o	o	x	x	x	o	x	x	x	x	x	x	x	x
1	x	o	o	x	o	o	o	o	o	o	o	x	x	o
2	x	x	o	x	o	o	o	o	o	o	o	x	o	o
3	x	x	x	x	o	o	o	o	o	o	o	x	o	o
4	x	x	x	x	o	o	o	o	o	o	o	o	o	o
5	x	x	x	x	x	o	o	o	o	o	o	o	o	o
6	x	x	x	x	x	x	o	o	o	o	o	o	o	o
7	x	x	o	x	x	x	x	o	o	o	o	o	o	o

> eacf(ot_diff_season)

AR/MA

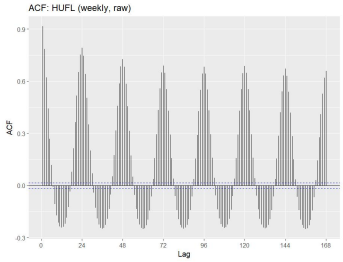
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	x	x	x	x	x	x	x	x	x	x	x	x	x	x
1	x	o	o	o	o	x	o	o	o	x	x	x	x	x
2	x	x	o	o	o	o	o	o	o	x	o	o	x	o
3	x	x	x	o	o	o	o	o	o	x	o	o	x	x
4	x	x	o	o	o	o	o	o	o	o	o	o	o	o
5	x	x	x	x	o	o	o	o	o	o	o	o	o	o
6	x	x	x	x	x	o	o	o	o	o	o	o	o	o
7	x	x	x	x	o	x	o	o	o	o	o	o	o	o

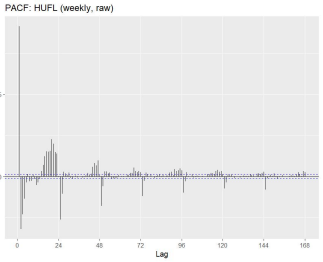
> eacf(ot_diff_both)

AR/MA

	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	x	x	x	x	x	o	o	x	o	o	o	o	o	x
1	x	x	o	o	o	o	o	o	o	o	o	o	o	x
2	x	x	x	o	o	o	o	o	x	o	o	o	o	x
3	x	x	x	o	o	o	o	o	o	o	o	o	o	o
4	x	x	x	x	o	o	o	o	o	o	o	o	o	o
5	x	x	x	x	x	o	o	o	o	o	o	o	o	o
6	x	x	x	x	x	o	o	o	o	o	o	o	o	o
7	x	x	x	x	x	o	x	o	o	o	o	o	o	o

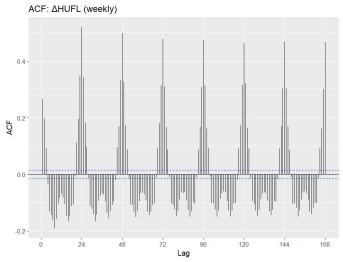
HUFL Series ACF / PACF

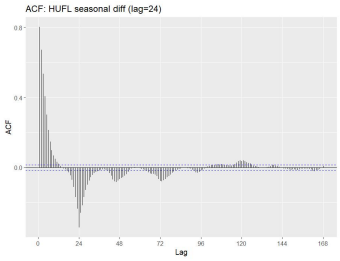


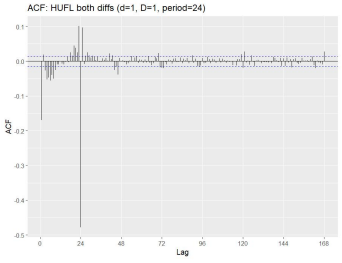



```
> eacf(hufl_ts)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x x x o x x x x  x  x  x
1 x x x x x x o x x x x  x  x  x
2 x x x o x x x x x x o  x  o  o
3 x x x o x x x x x x o  o  o  o
4 x x x x x x x x x x o  o  o  o
5 x x x x x o o o o x o  o  o  o
6 x x x x o o o o o x o  o  o  o
7 x x x x x o o o o x o  o  o  o
```

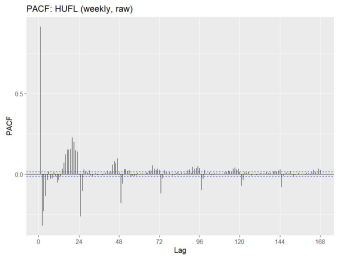
HUFL Series ACF diff / seasonal diff / both

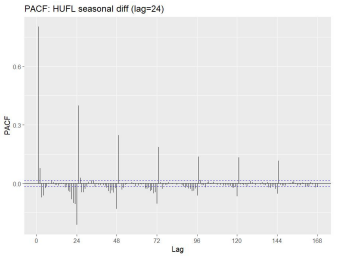


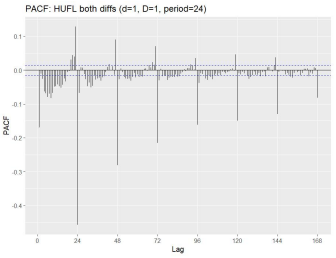




HUFL Series PACF diff / seasonal diff / both







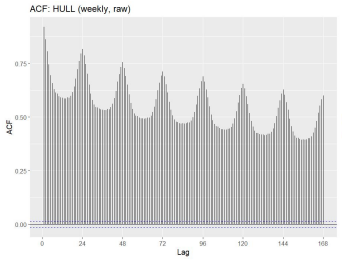
HUFL Series EACF diff / seasonal diff / both

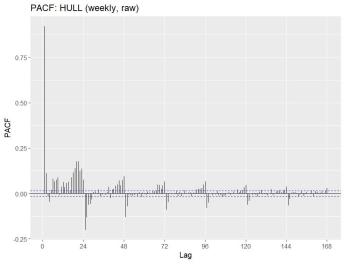
```
> eacf(hufl_diff1)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x x x x x x x x  x  x  x
1 x x x x x o o x x x o  x  o  o
2 x x o o x x o x x x o  o  o  o
3 x x x o x o o x x x o  o  o  o
4 x x x x x o o o x x o  o  o  o
5 x x x x x o o o x x o  o  o  x
6 x x x x x x o o x o o  o  o  o
7 x x x x x o o o x o x  x  o  o
```

```
> eacf(hufl_diff_season)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x x x x x x x x  x  o  o
1 x x x x x o x o o o o  o  o  o
2 x x o o x o x x o o o  o  o  o
3 x x x o o o x o o o o  o  o  o
4 x x x x o o x o o o o  o  o  o
5 x x x x x o x o o x o  o  o  o
6 x x x o x x o x o o o  o  o  o
7 x o x o x x x x o o o  o  o  o
```

```
> eacf(hufl_diff_both)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x x x x x x o o  o  o  o
1 x x o o o o o x o o o  o  o  o
2 x o x x o o o x x o o  o  o  o
3 x o x x o o o x x o o  o  o  o
4 x x x x x o o x x o o  o  o  o
5 x x x x o o o x o o o  o  o  o
6 x x x o x x x x o o x  o  o  o
7 x x x x x x x x o o o  o  o  o
```

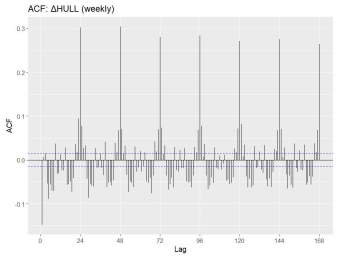
HULL Series ACF / PACF

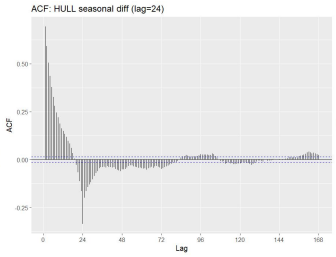


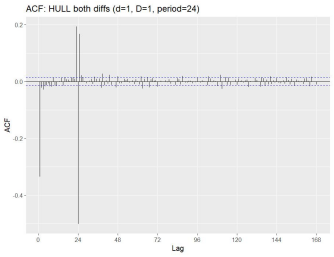



```
> eacf(hull_ts)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x x x x x x x x  x  x  x
1 x x x x x x x x x x x  o  x  x
2 x x x x x x o x o x x  o  x  x
3 x x x o x o o x x x x  x  x  x
4 x x x o x o o x x x o  x  o  o
5 x x x x x x o x x x o  o  o  o
6 x x x x x x o x x x x  o  o  o
7 x x x x x x x x o x o  o  x  o
```

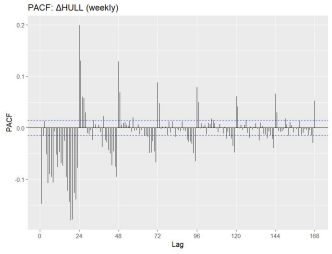
HULL Series ACF diff / seasonal diff / both

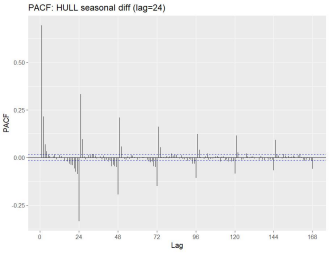


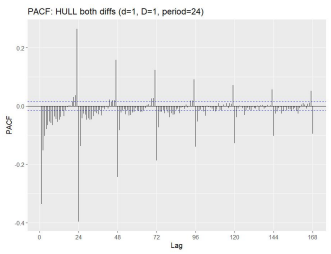




HULL Series PACF diff / seasonal diff / both







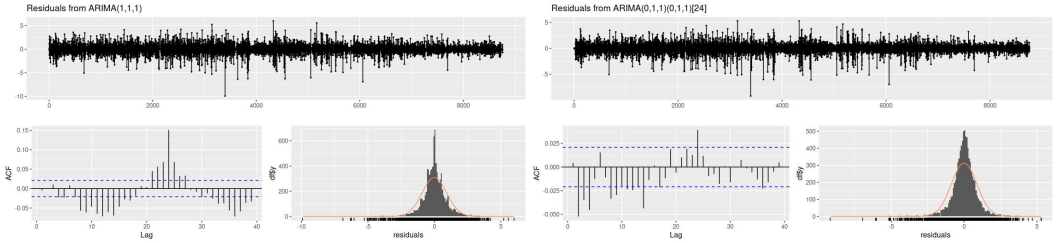
HULL Series EACF diff / seasonal diff / both

```
> eacf(hull_diff1)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x o o x x x x x x x x  o  x  x
1 x x o x x x x o x x x  o  x  x
2 x x x o x x o x x x x  x  x  x
3 x x x x x o o x x x o  x  o  o
4 x x x x x x o x x x o  o  o  o
5 x x x x x x o x x x x  o  o  o
6 x x x x x x x x o x o  o  x  o
7 x x x x x x x x o o o  x  o  x
```

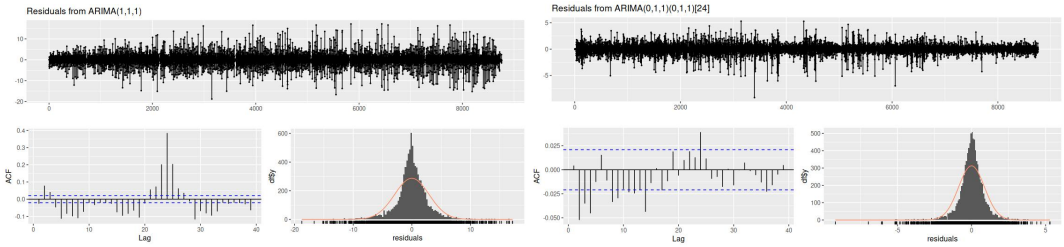
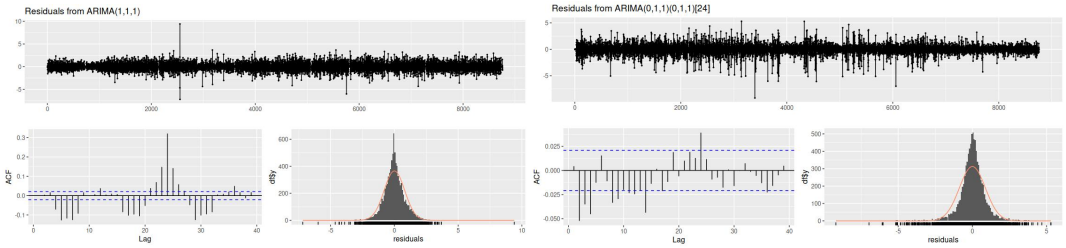
```
> eacf(hull_diff_season)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x x x x x x x x  x  x  x
1 x o o o o o o o x o o  o  o  x
2 x x o o o o o o x o o  o  o  x
3 x x o o o o o o o o o  o  o  o
4 x x o x o o o o o o o  o  o  o
5 x x x o x o o o o o o  o  o  o
6 x x x o o x o o o o o  o  o  x
7 x x x x x x x o o o o  o  o  o
```

```
> eacf(hull_diff_both)
AR/MA
  0 1 2 3 4 5 6 7 8 9 10 11 12 13
0 x x x x o o x x o o o  o  o  o
1 x x o o o o o x o o o  o  o  o
2 x x x o o o o x o o o  o  o  o
3 x x x o o o o o x o o  o  o  o
4 x x x o x o o o o o o  o  o  o
5 x x x x o x o o o o x  o  o  o
6 x x x x o x x o o o o  o  o  o
7 x x x x o x x o o o o  o  o  o
```

OT ARIMA / SARIMA Residuals



HUFL ARIMA / SARIMA Residuals



HULL ARIMA / SARIMA Residuals