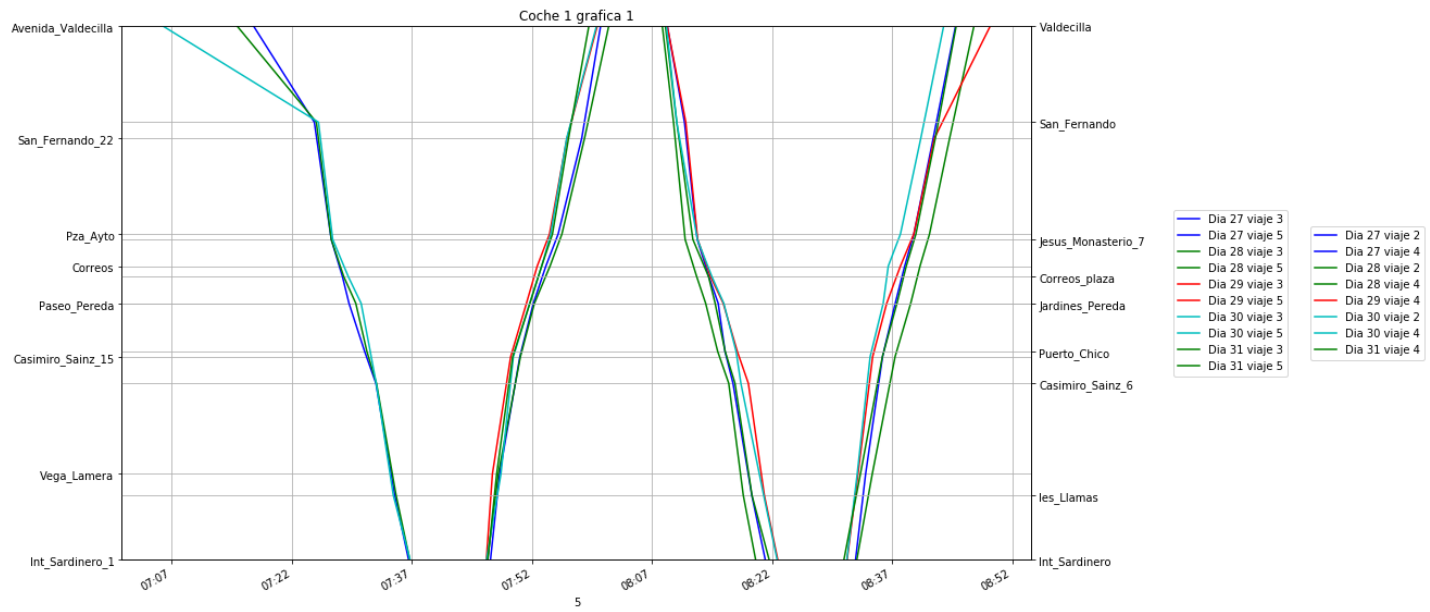


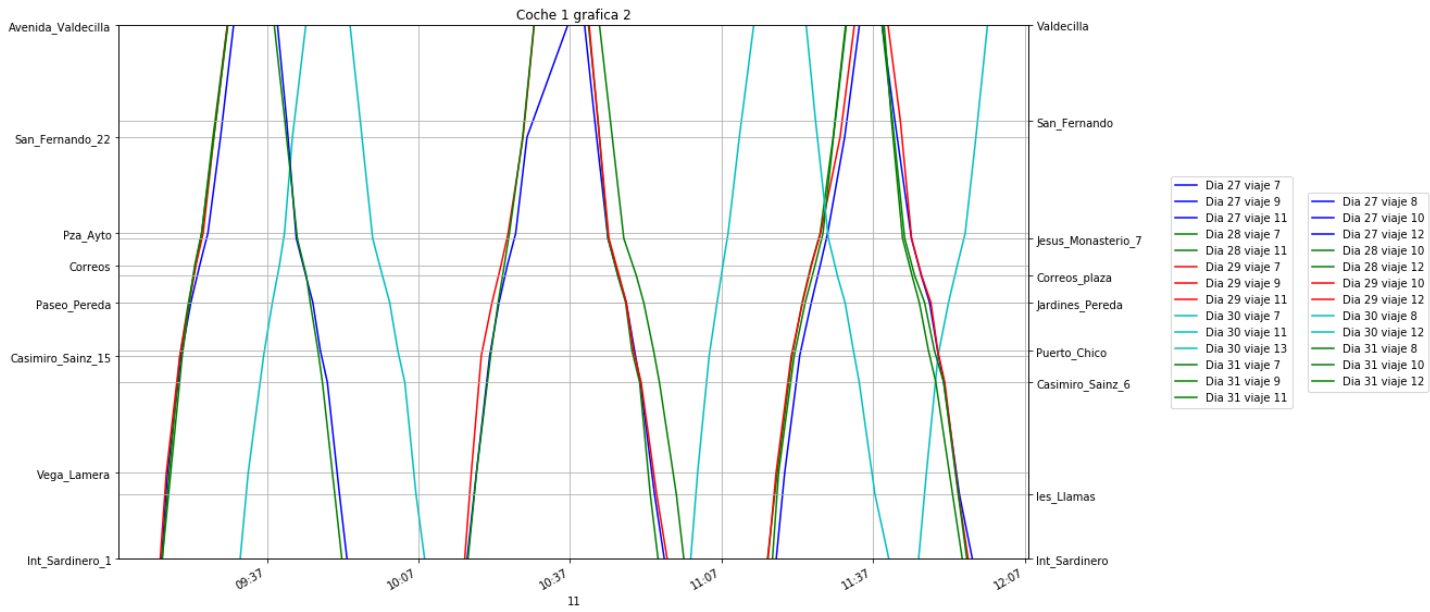
Coche 1 grafica 1

Gráfico evolución:



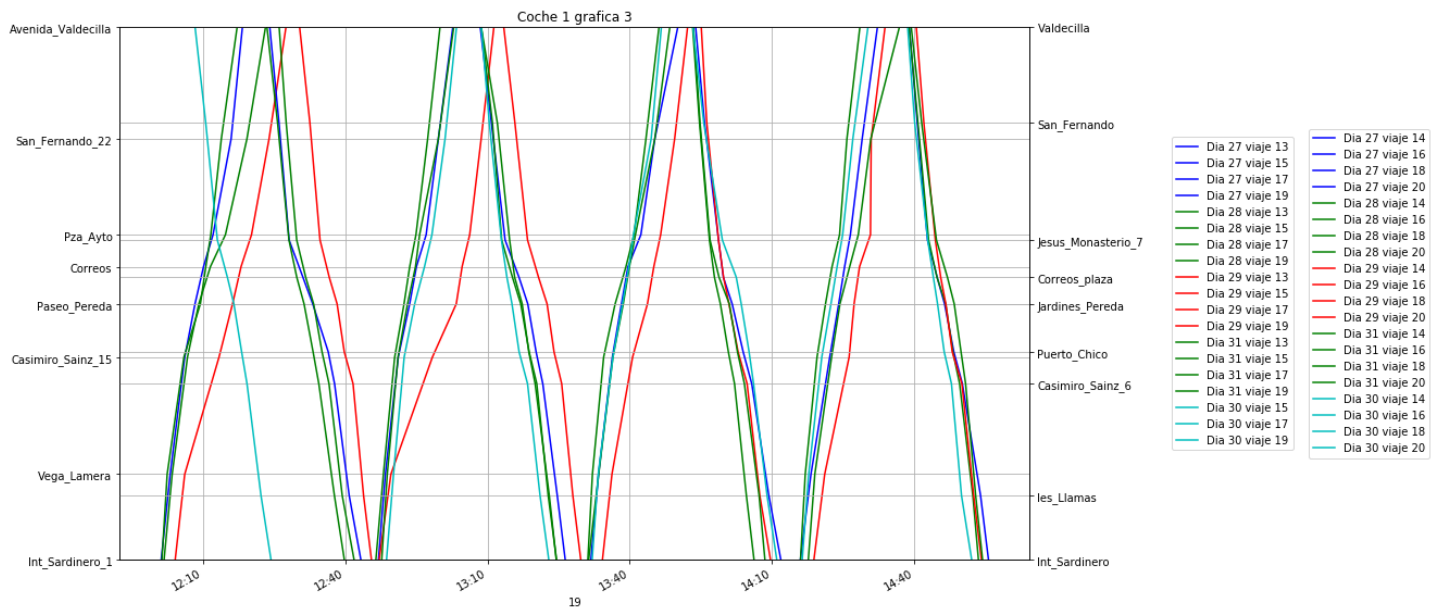
Coche 1 grafica 2

Gráfico evolución:



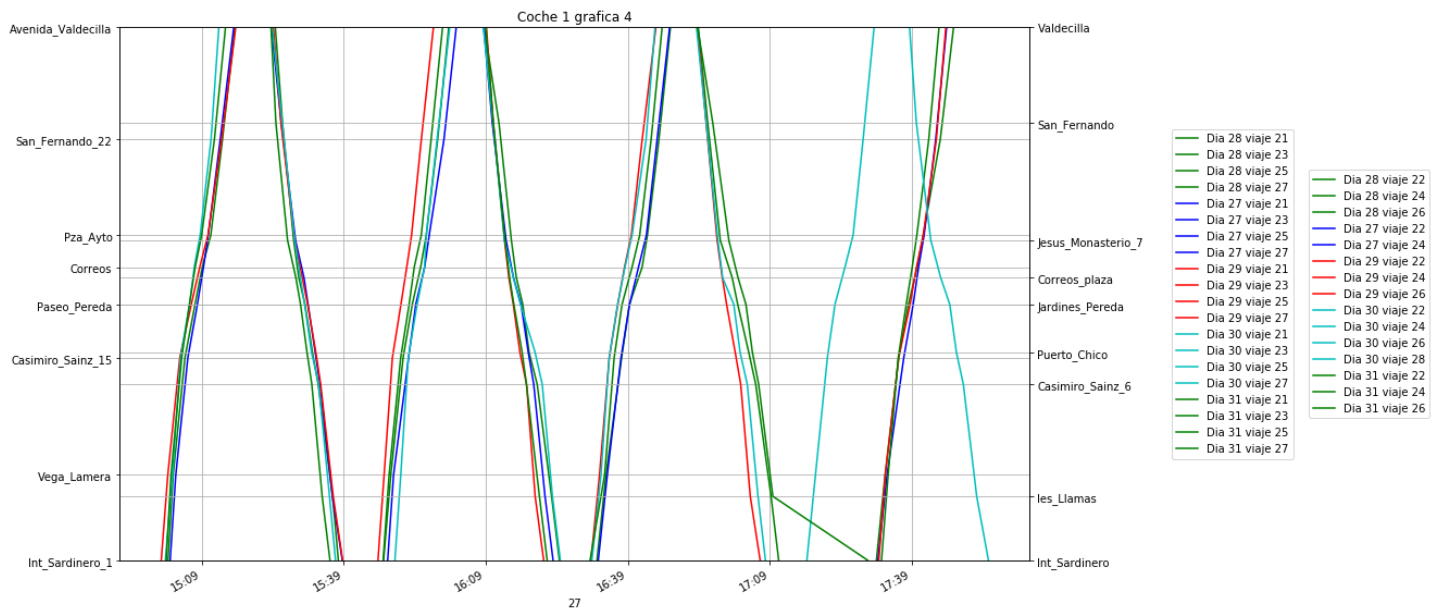
Coche 1 grafica 3

Gráfico evolución:



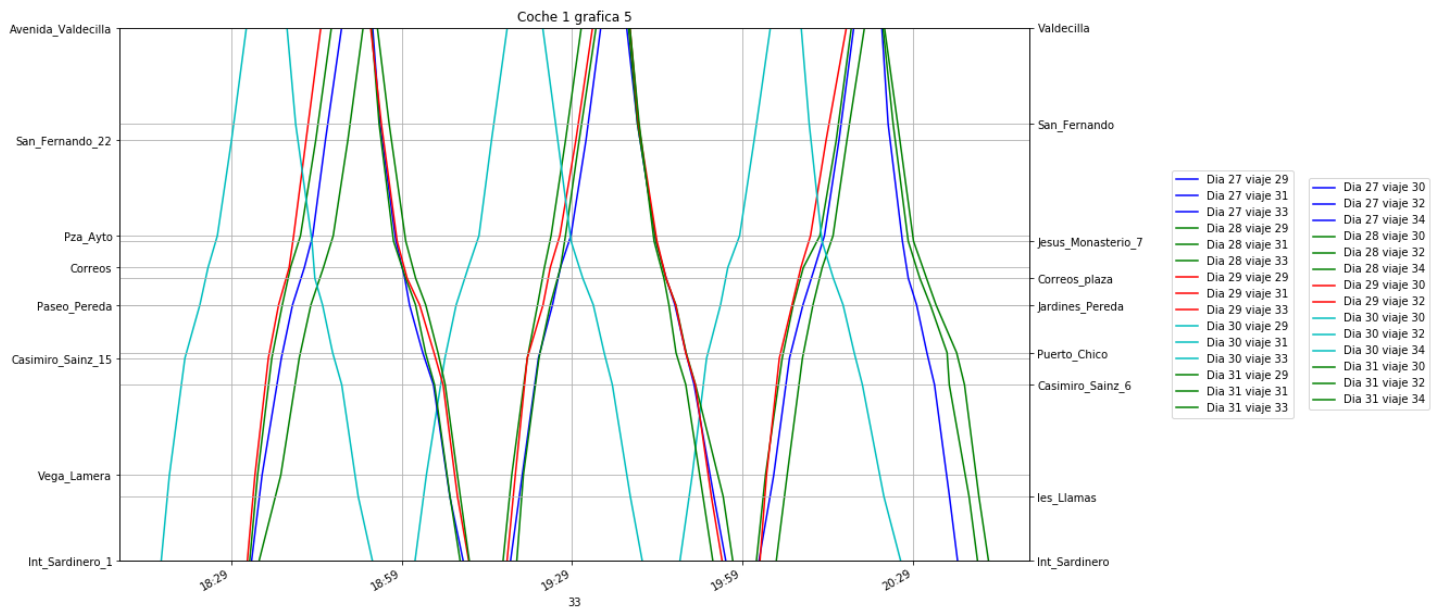
Coche 1 grafica 4

Gráfico evolución:



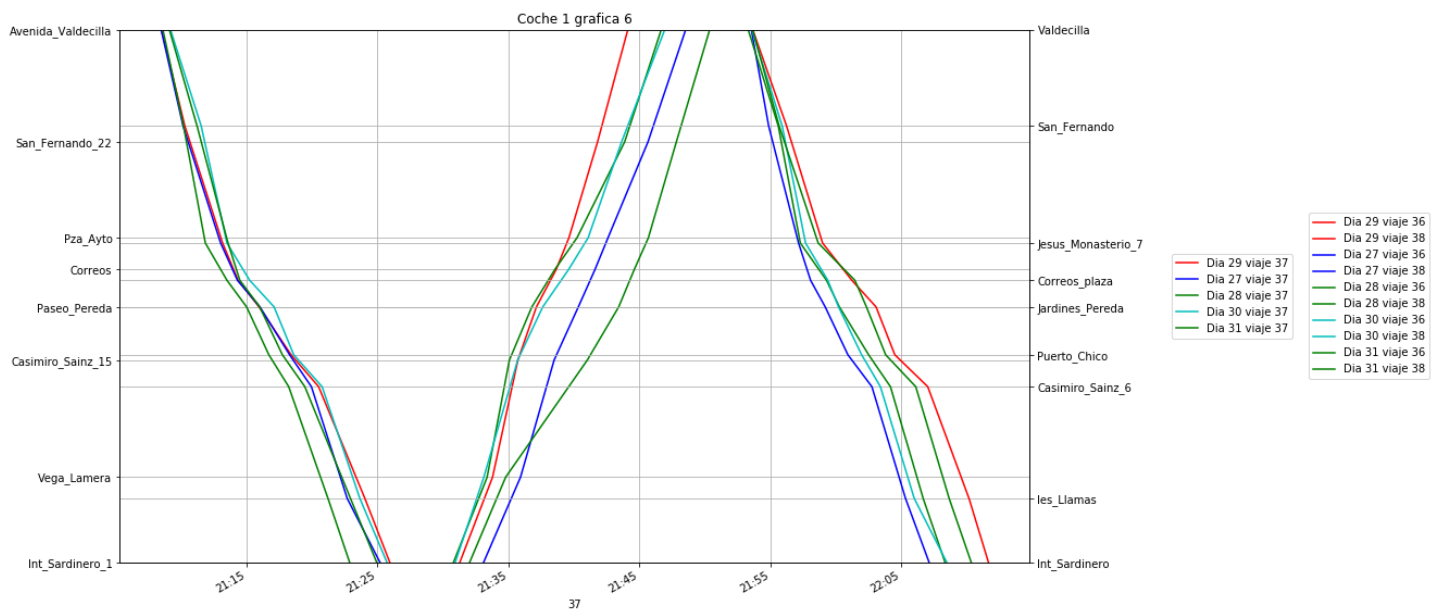
Coche 1 grafica 5

Gráfico evolución:



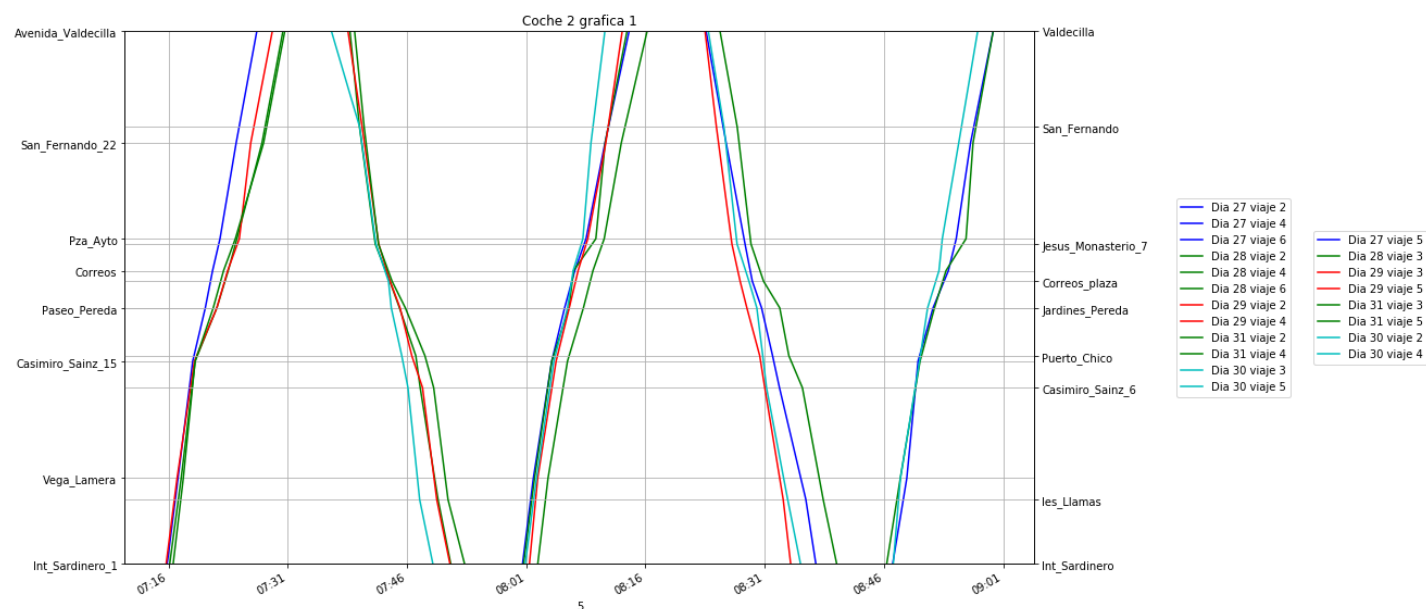
Coche 1 grafica 6

Gráfico evolución:



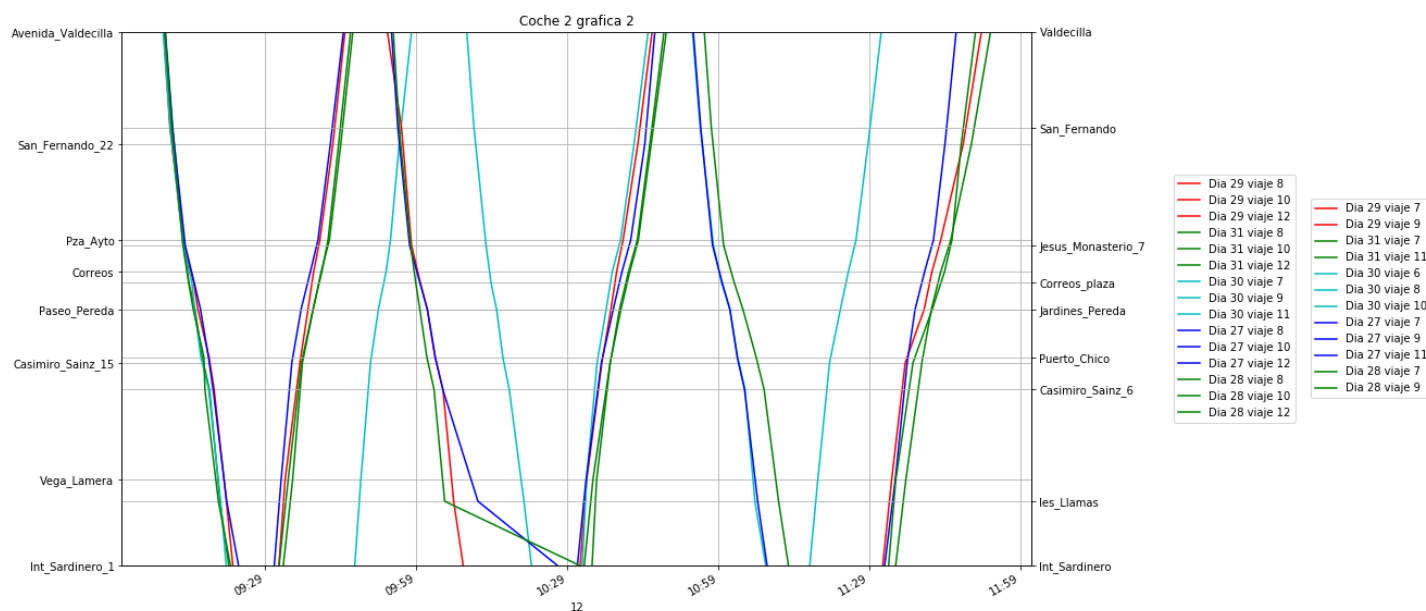
Coche 2 grafica 1

Gráfico evolución:



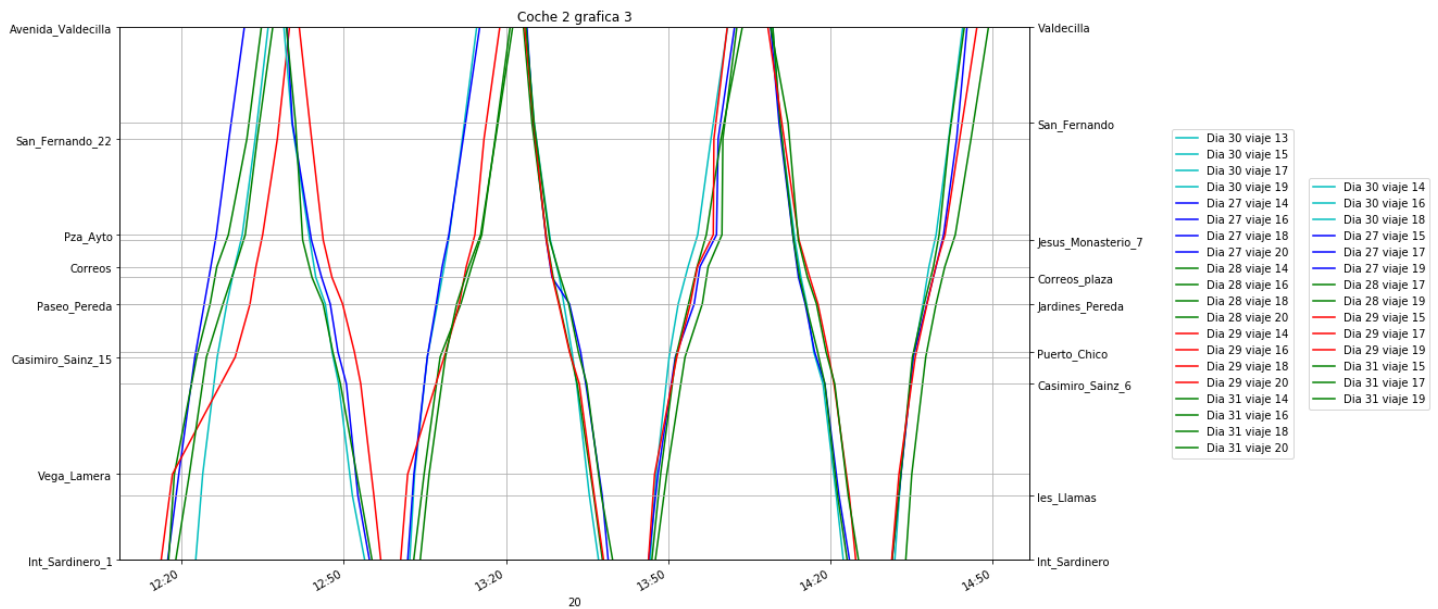
Coche 2 grafica 2

Gráfico evolución:



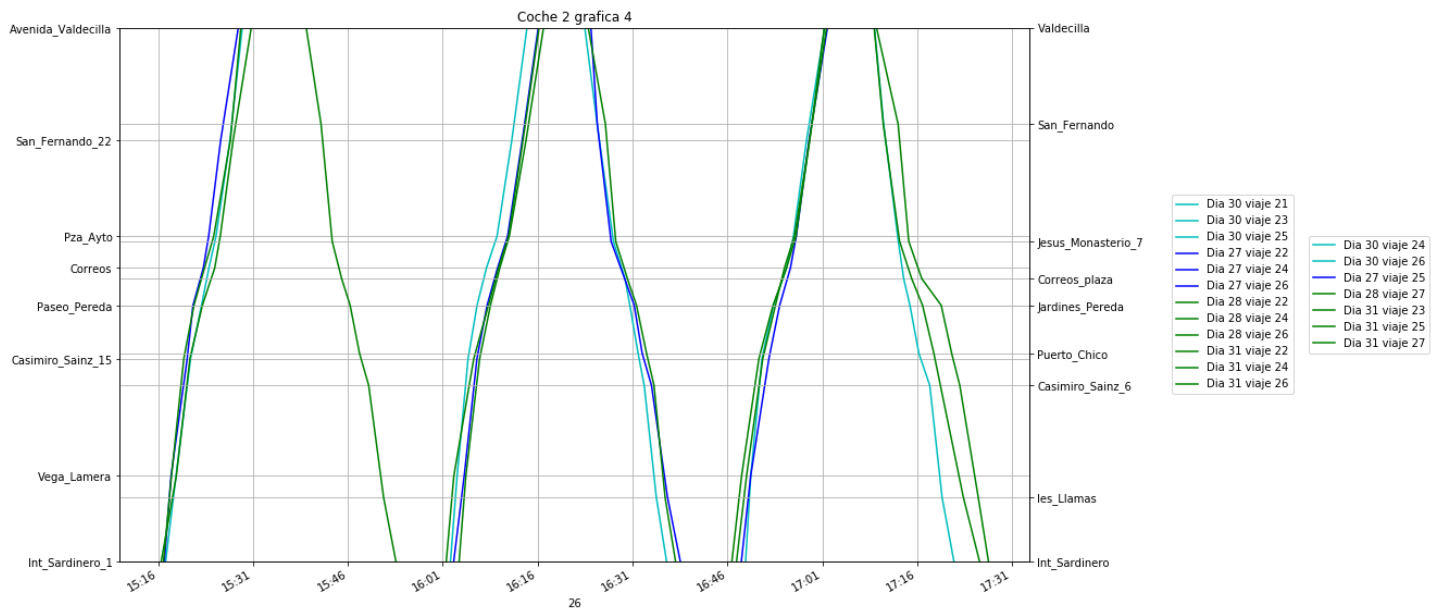
Coche 2 grafica 3

Gráfico evolución:



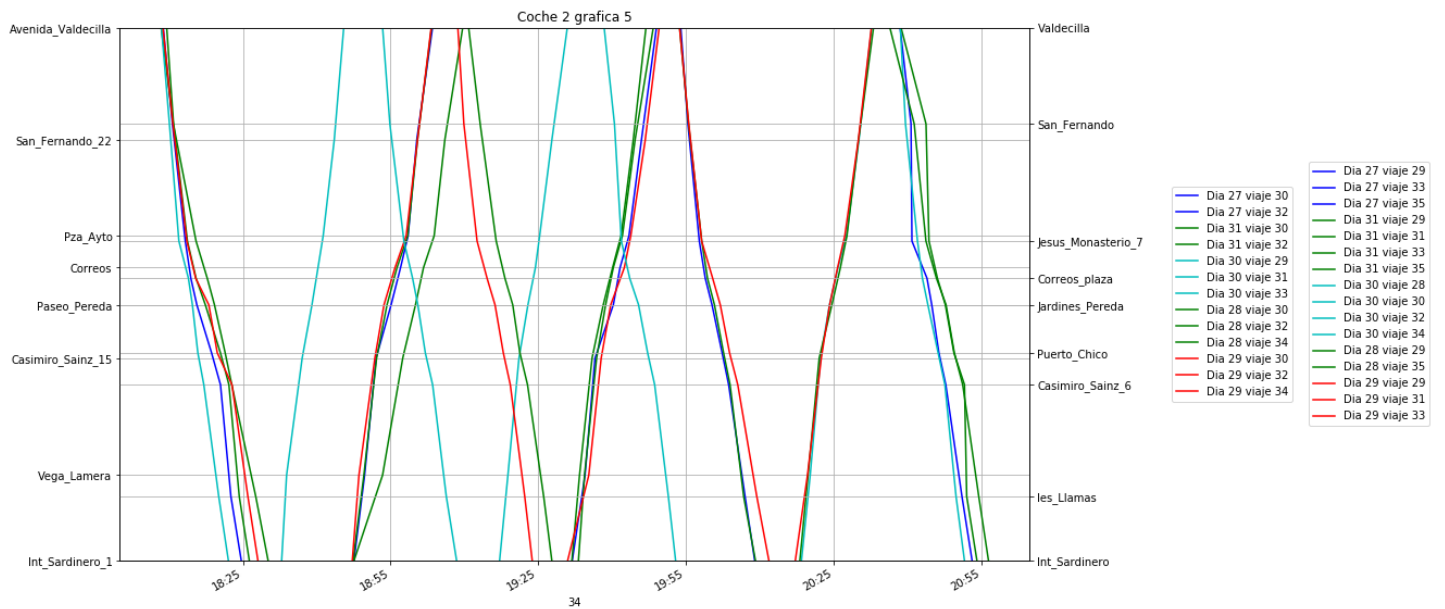
Coche 2 grafica 4

Gráfico evolución:



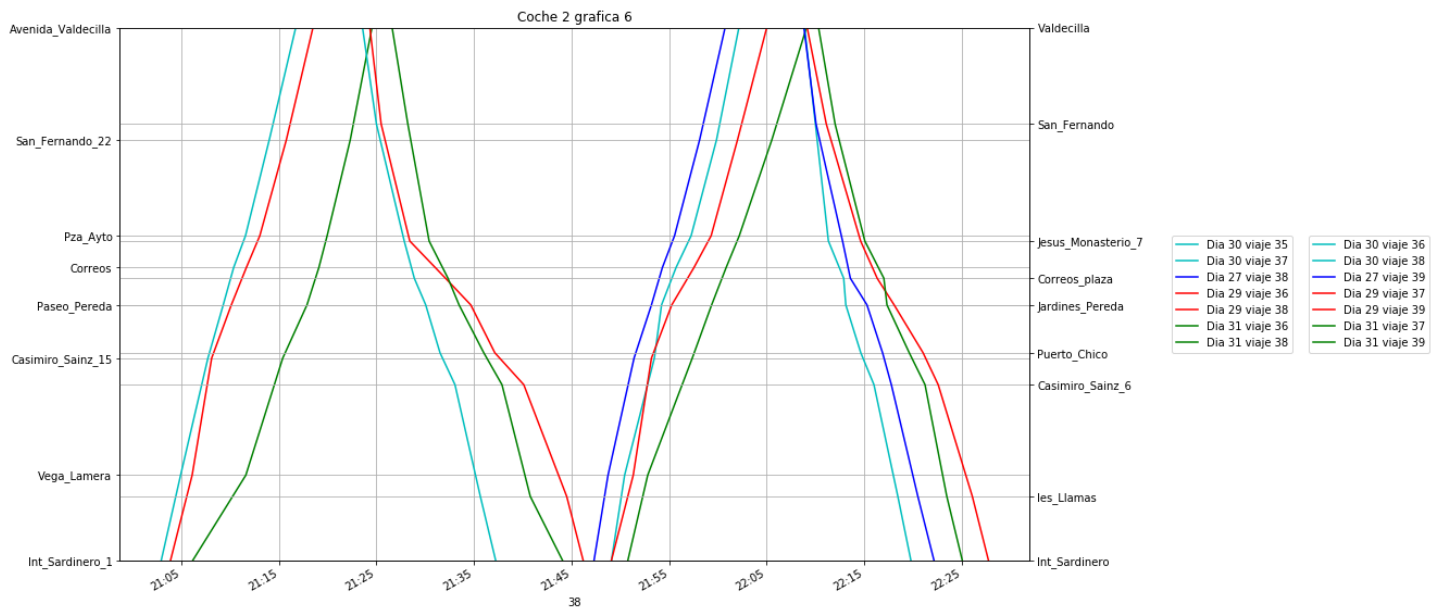
Coche 2 grafica 5

Gráfico evolución:



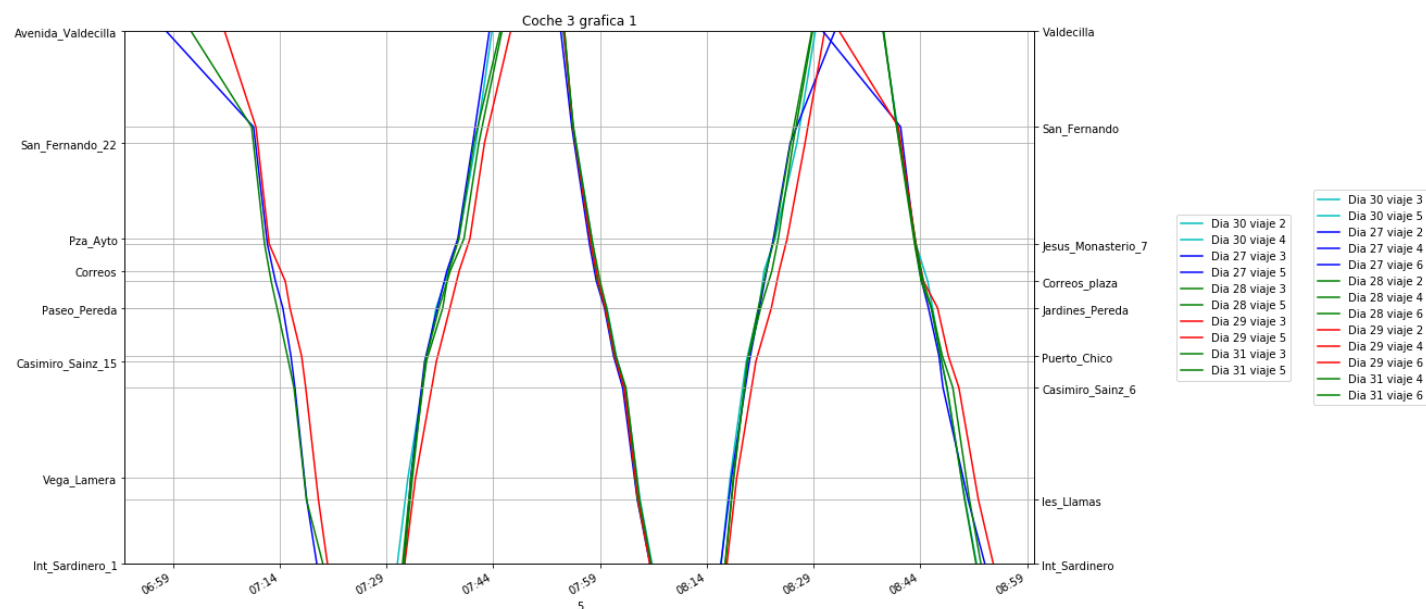
Coche 2 grafica 6

Gráfico evolución:



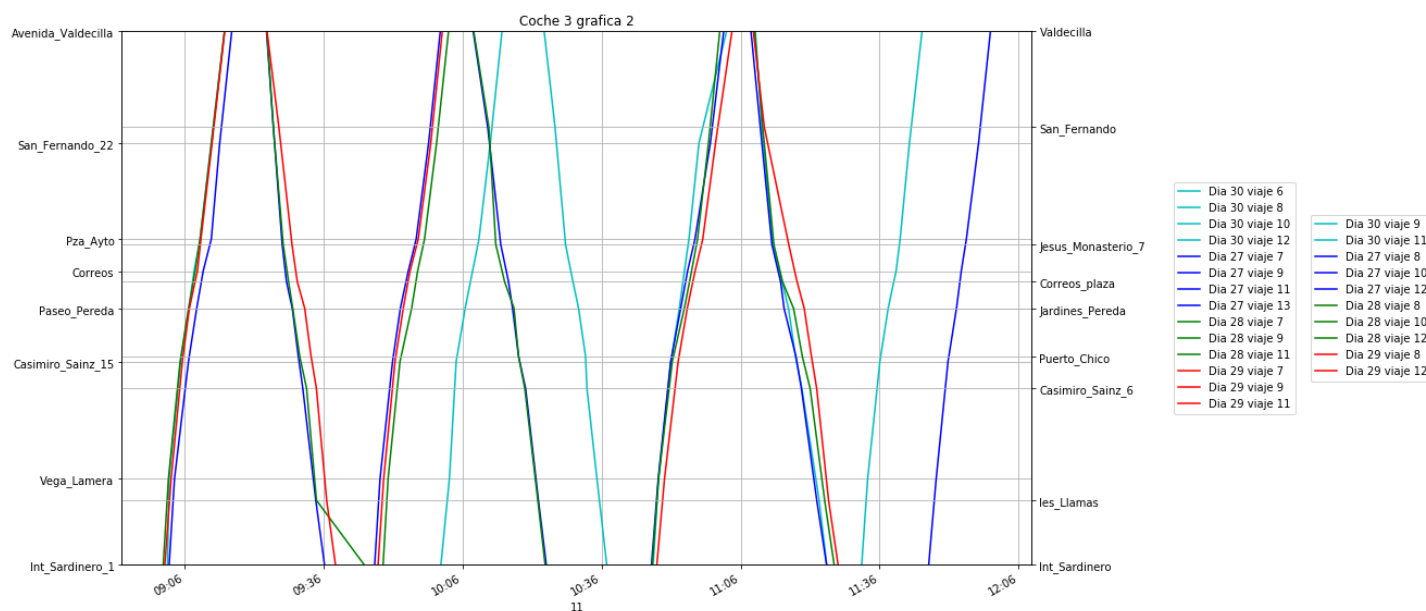
Coche 3 grafica 1

Gráfico evolución:



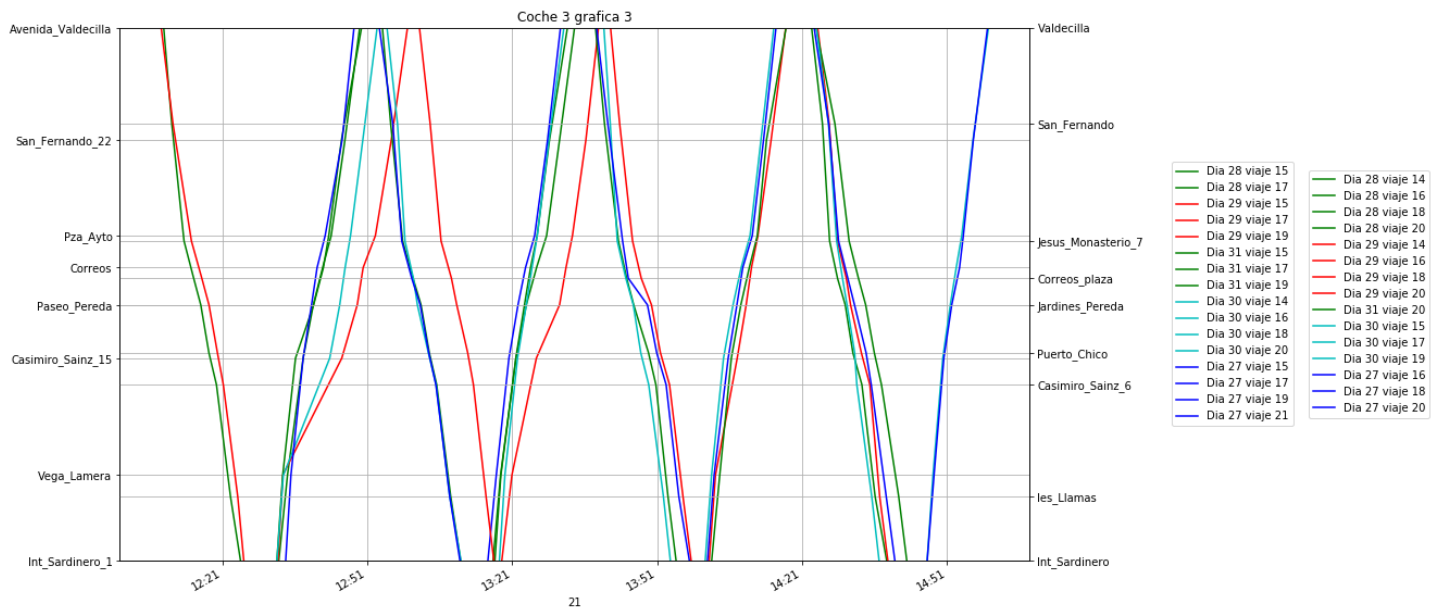
Coche 3 grafica 2

Gráfico evolución:



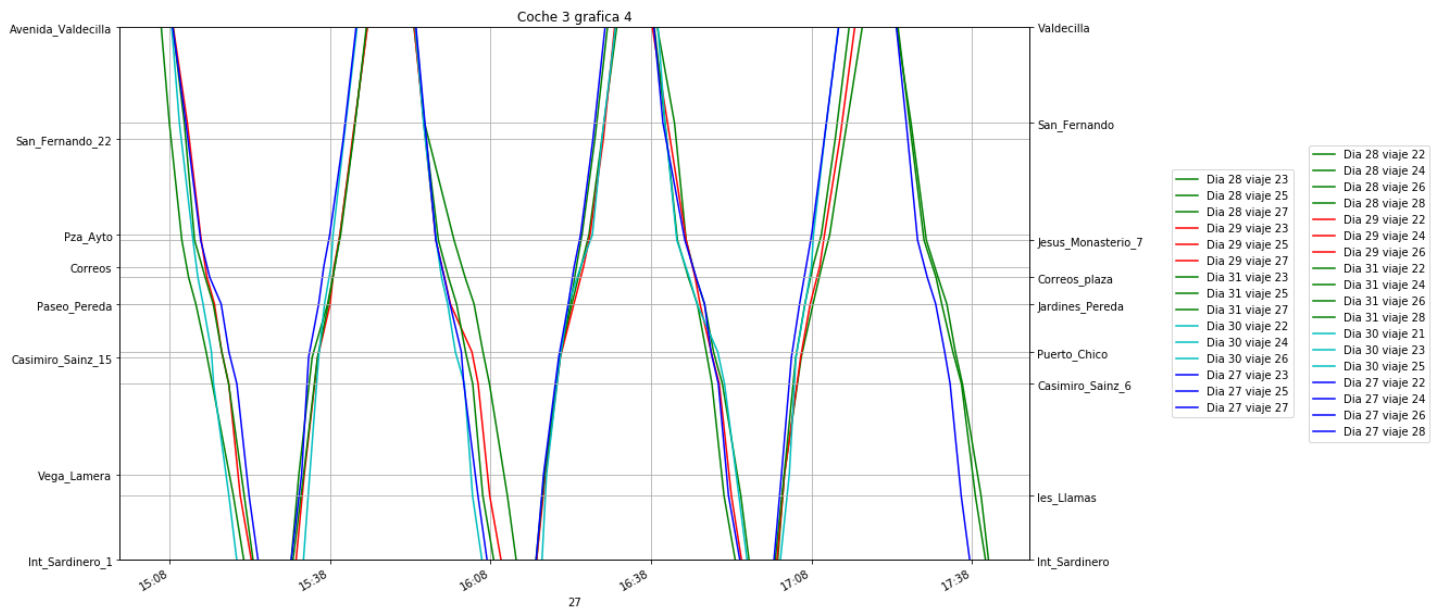
Coche 3 grafica 3

Gráfico evolución:



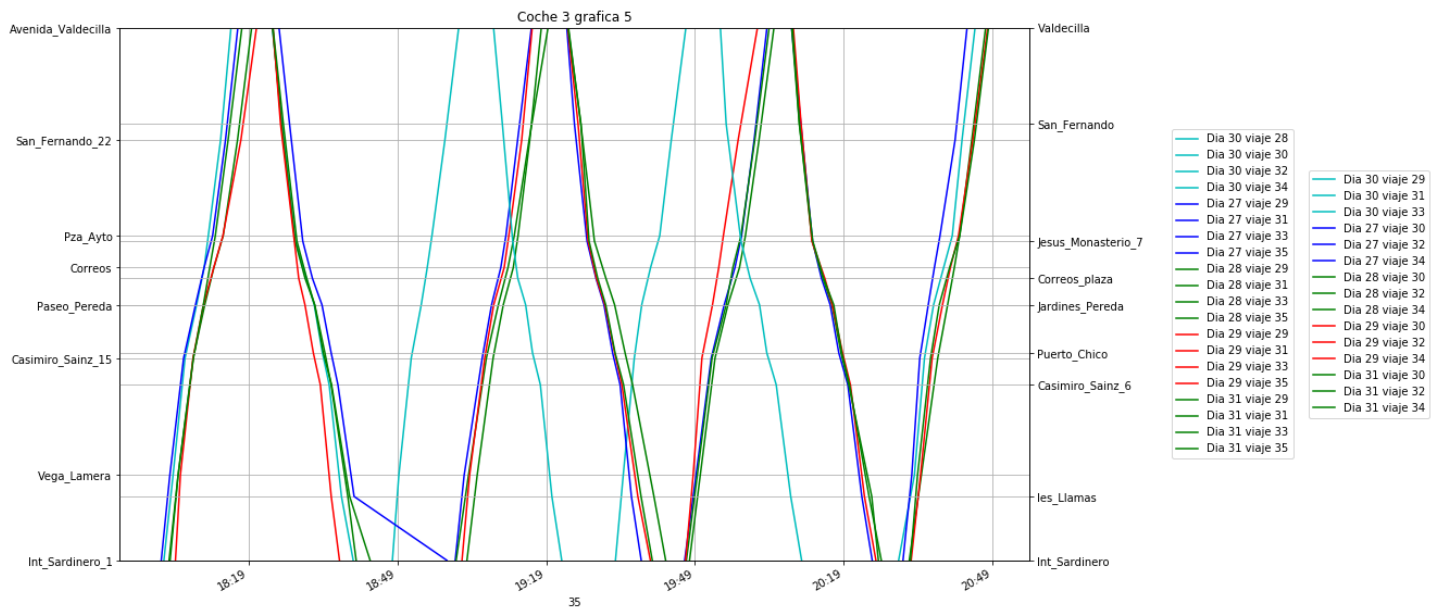
Coche 3 grafica 4

Gráfico evolución:



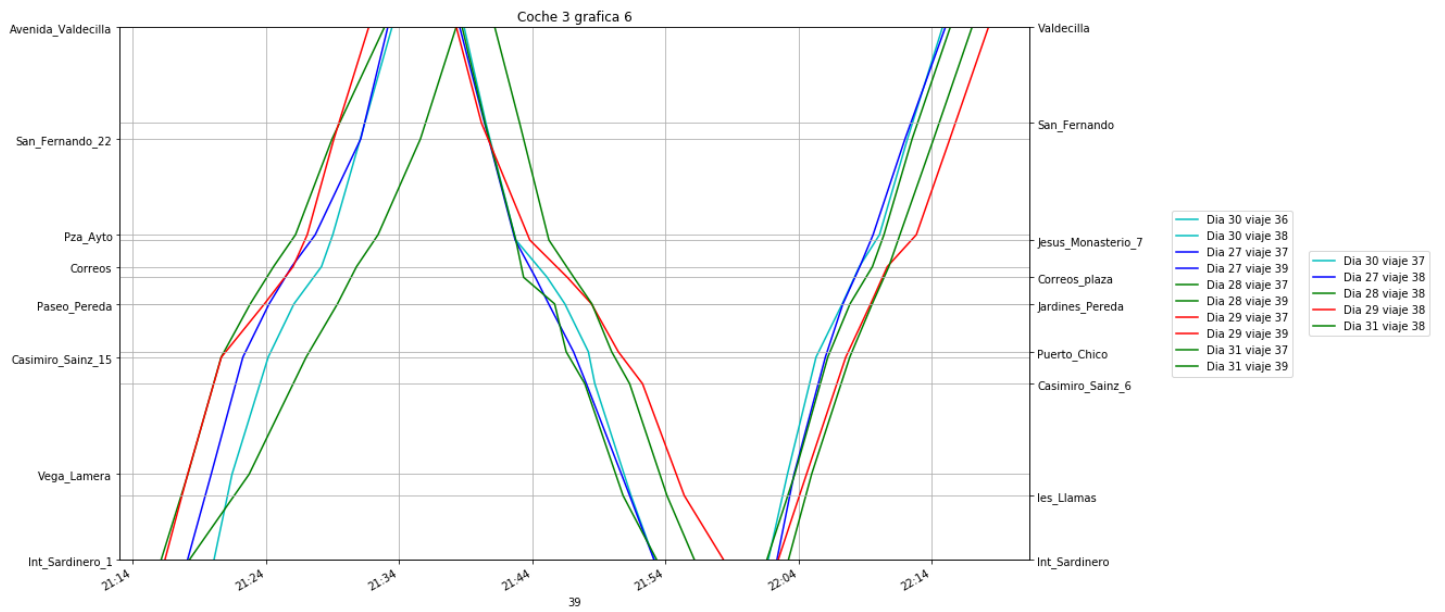
Coche 3 grafica 5

Gráfico evolución:



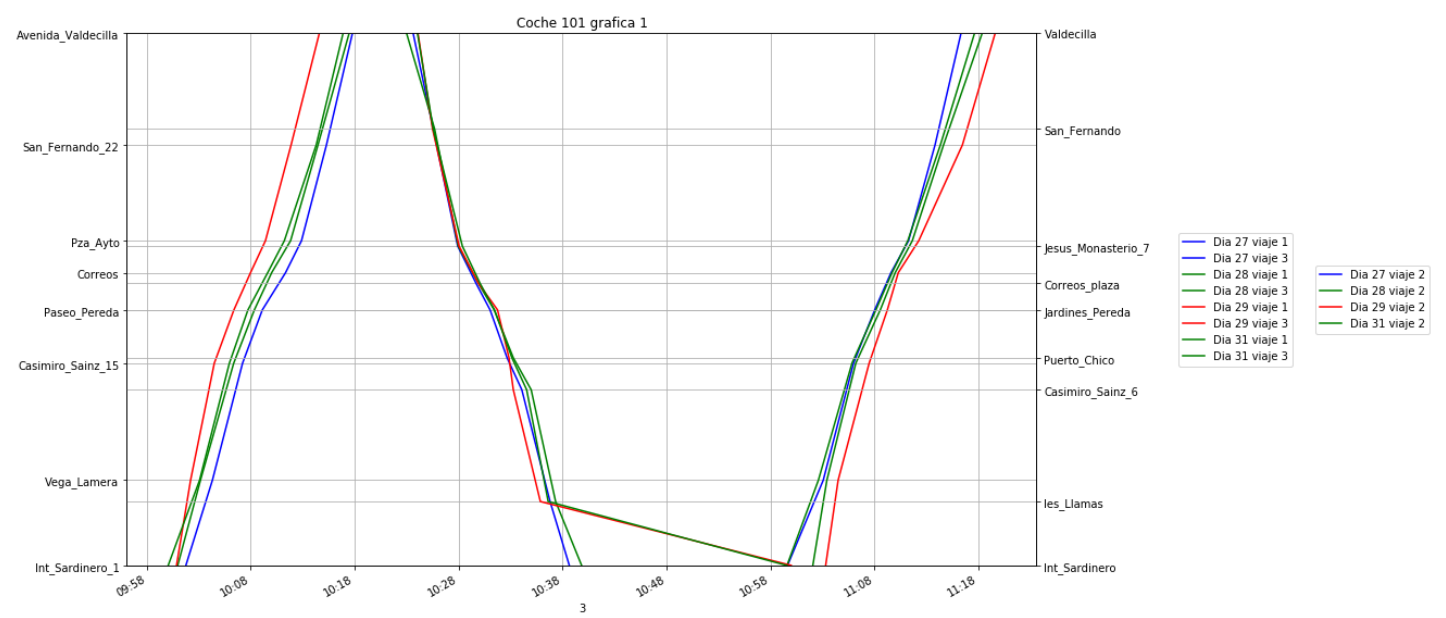
Coche 3 grafica 6

Gráfico evolución:



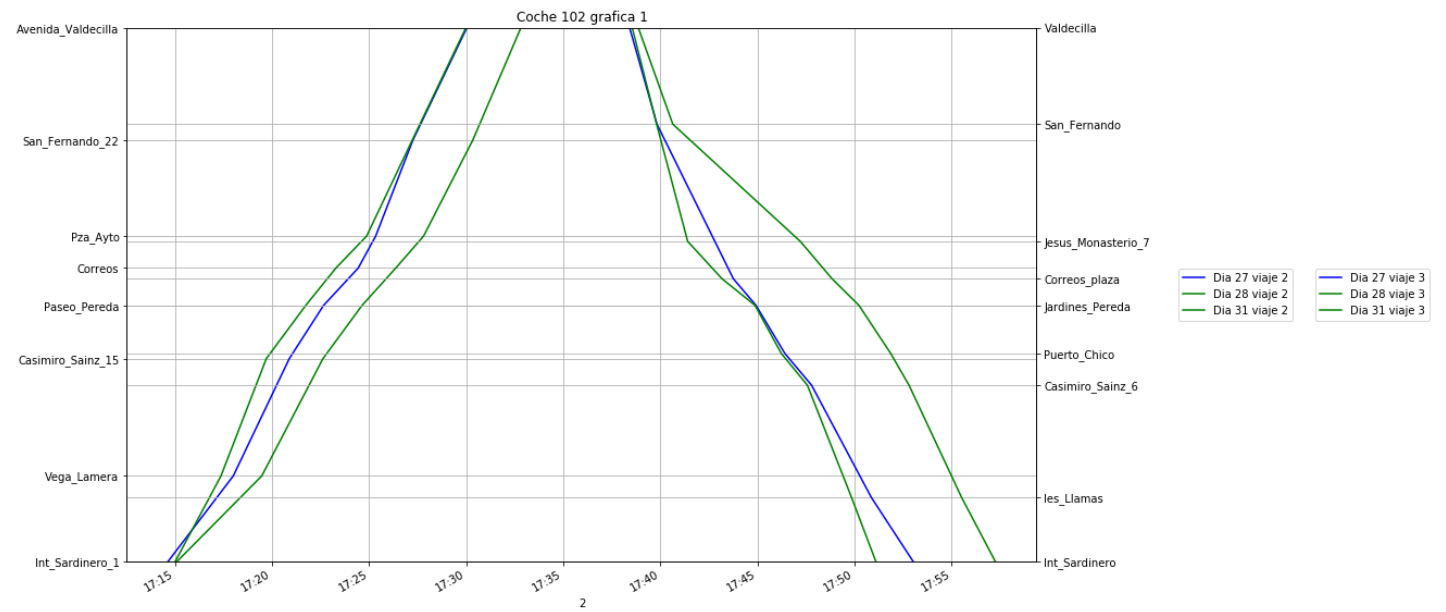
Coche 101 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:

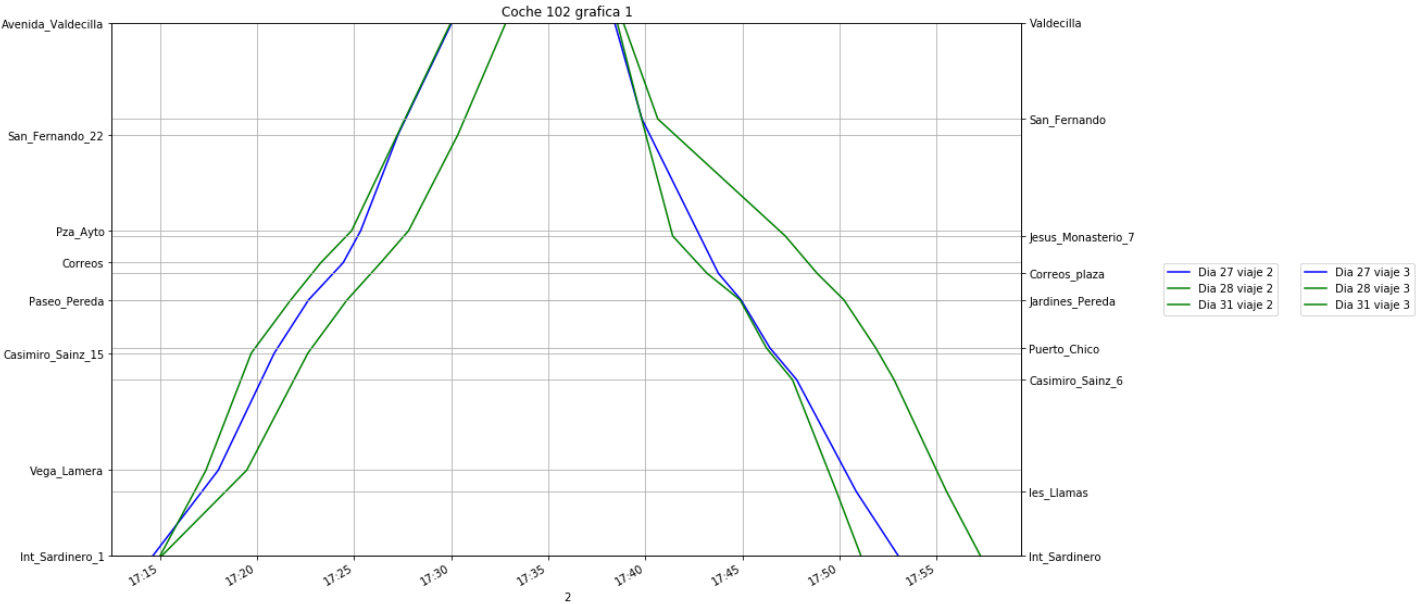


Tabla resumen velocidades y tiempos

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
1	Valdecilla_Sardiner	2	23.911111	12.790542	6.094905	2.923993
1	Sardiner_Valdecilla	3	13.816667	21.349369	0.892484	1.371896
1	Valdecilla_Sardiner	4	12.886667	22.917447	0.959340	1.734054
1	Sardiner_Valdecilla	5	14.213333	21.085343	2.295539	3.122883
1	Sardiner_Valdecilla	7	13.276667	22.174003	0.557350	0.890222
1	Valdecilla_Sardiner	8	13.950000	21.111661	0.716667	1.062805
1	Sardiner_Valdecilla	9	15.561111	19.570124	3.773089	4.191323
1	Valdecilla_Sardiner	10	15.408333	19.173879	1.217808	1.576591
1	Sardiner_Valdecilla	11	15.206667	19.569581	1.798634	2.504547
1	Valdecilla_Sardiner	12	16.446667	17.919759	0.920251	0.979396
1	Sardiner_Valdecilla	13	18.263333	16.731271	4.010583	3.645412
1	Valdecilla_Sardiner	14	16.483333	17.955773	1.577973	1.564090
1	Sardiner_Valdecilla	15	16.660000	18.393911	4.280667	3.660993
1	Valdecilla_Sardiner	16	16.003333	18.470460	1.313467	1.517954
1	Sardiner_Valdecilla	17	16.590000	17.876554	1.706304	1.885978
1	Valdecilla_Sardiner	18	15.636667	19.089436	2.135071	2.643494
1	Sardiner_Valdecilla	19	15.356667	19.552261	2.550234	3.096756
1	Valdecilla_Sardiner	20	14.710000	20.101082	1.271406	1.662107
1	Sardiner_Valdecilla	21	13.423333	22.176113	1.671144	2.767272
1	Valdecilla_Sardiner	22	13.750000	21.479101	1.034945	1.617837
1	Sardiner_Valdecilla	23	12.820000	23.111035	1.273032	2.245348
1	Valdecilla_Sardiner	24	14.360000	20.745607	1.813246	2.700190
1	Sardiner_Valdecilla	25	14.566667	20.258283	0.980717	1.396980
1	Valdecilla_Sardiner	26	20.179167	16.967112	10.604964	6.187087
1	Sardiner_Valdecilla	27	14.263333	20.793707	1.474383	2.207237
1	Valdecilla_Sardiner	28	16.666667	17.640000	NaN	NaN
1	Sardiner_Valdecilla	29	15.276667	19.499154	1.989577	2.456774
1	Valdecilla_Sardiner	30	15.986667	18.428961	0.827177	0.934441
1	Sardiner_Valdecilla	31	14.960000	19.739549	1.109592	1.469640
1	Valdecilla_Sardiner	32	16.810000	17.601751	1.459052	1.618668
1	Sardiner_Valdecilla	33	15.993333	18.409041	0.677167	0.779045
1	Valdecilla_Sardiner	34	16.433333	18.158634	2.186363	2.694152
1	Valdecilla_Sardiner	36	16.143333	18.297761	1.204655	1.441673
1	Sardiner_Valdecilla	37	15.676667	19.000633	1.958372	2.489333
1	Valdecilla_Sardiner	38	15.623333	18.999128	1.722184	2.061409
2	Sardiner_Valdecilla	2	13.220833	22.436019	1.381181	2.536670
2	Valdecilla_Sardiner	2	12.750000	23.058824	NaN	NaN
2	Sardiner_Valdecilla	3	10.000000	29.400000	NaN	NaN
2	Valdecilla_Sardiner	3	13.100000	22.476019	0.625167	1.045810
2	Sardiner_Valdecilla	4	12.954167	22.784375	0.911386	1.687546
2	Valdecilla_Sardiner	4	11.583333	25.381295	NaN	NaN
2	Sardiner_Valdecilla	5	10.616667	27.692308	NaN	NaN
2	Valdecilla_Sardiner	5	13.077778	22.885435	2.047853	3.880152
2	Sardiner_Valdecilla	6	13.008333	22.619695	0.530330	0.922171
2	Valdecilla_Sardiner	6	12.500000	23.520000	NaN	NaN
2	Sardiner_Valdecilla	7	11.250000	26.133333	NaN	NaN
2	Valdecilla_Sardiner	7	13.458333	21.915703	0.888246	1.425414
2	Sardiner_Valdecilla	8	13.695833	21.483798	0.447498	0.710891
2	Valdecilla_Sardiner	8	12.833333	22.909091	NaN	NaN
2	Sardiner_Valdecilla	9	13.050000	22.528736	NaN	NaN

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
2	Valdecilla_Sardinero	9	28.261111	12.157618	11.630304	6.426141
2	Sardinero_Valdecilla	10	15.045833	19.600636	0.974430	1.242971
2	Valdecilla_Sardinero	10	14.533333	20.229358	NaN	NaN
2	Sardinero_Valdecilla	11	14.183333	20.728555	NaN	NaN
2	Valdecilla_Sardinero	11	15.666667	18.847953	1.461354	1.758098
2	Sardinero_Valdecilla	12	17.454167	17.106432	2.390040	2.562658
2	Sardinero_Valdecilla	13	13.383333	21.967621	NaN	NaN
2	Sardinero_Valdecilla	14	18.233333	16.681473	4.000602	3.436363
2	Valdecilla_Sardinero	14	14.916667	19.709497	NaN	NaN
2	Sardinero_Valdecilla	15	12.383333	23.741588	NaN	NaN
2	Valdecilla_Sardinero	15	15.372222	19.133681	0.393818	0.484490
2	Sardinero_Valdecilla	16	16.625000	17.970707	2.273621	2.797185
2	Valdecilla_Sardinero	16	13.350000	22.022472	NaN	NaN
2	Sardinero_Valdecilla	17	14.316667	20.535506	NaN	NaN
2	Valdecilla_Sardinero	17	15.037500	19.578540	0.660440	0.832548
2	Sardinero_Valdecilla	18	15.550000	18.958650	0.944869	1.139628
2	Valdecilla_Sardinero	18	13.050000	22.528736	NaN	NaN
2	Sardinero_Valdecilla	19	12.550000	23.426295	NaN	NaN
2	Valdecilla_Sardinero	19	15.191667	19.453150	1.250000	1.628565
2	Sardinero_Valdecilla	20	14.554167	20.295186	1.147168	1.604271
2	Sardinero_Valdecilla	21	12.100000	24.297521	NaN	NaN
2	Sardinero_Valdecilla	22	12.705556	23.304217	1.338981	2.346427
2	Sardinero_Valdecilla	23	12.083333	24.331034	NaN	NaN
2	Valdecilla_Sardinero	23	14.166667	20.752941	NaN	NaN
2	Sardinero_Valdecilla	24	13.783333	21.372642	0.765034	1.149461
2	Valdecilla_Sardinero	24	12.916667	22.761290	NaN	NaN
2	Sardinero_Valdecilla	25	12.500000	23.520000	NaN	NaN
2	Valdecilla_Sardinero	25	13.950000	21.078278	0.235702	0.356143
2	Sardinero_Valdecilla	26	14.138889	20.811529	0.504517	0.749048
2	Valdecilla_Sardinero	26	12.550000	23.426295	NaN	NaN
2	Valdecilla_Sardinero	27	17.166667	17.141741	0.730677	0.729616
2	Valdecilla_Sardinero	28	13.583333	21.644172	NaN	NaN
2	Sardinero_Valdecilla	29	12.600000	23.333333	NaN	NaN
2	Valdecilla_Sardinero	29	18.391667	16.227779	2.639216	2.258581
2	Sardinero_Valdecilla	30	17.479167	17.153075	3.047536	2.546994
2	Valdecilla_Sardinero	30	15.016667	19.578246	NaN	NaN
2	Sardinero_Valdecilla	31	13.733333	21.407767	NaN	NaN
2	Valdecilla_Sardinero	31	15.991667	18.441911	1.261007	1.454219
2	Sardinero_Valdecilla	32	16.466667	17.991116	1.682425	1.788262
2	Valdecilla_Sardinero	32	14.500000	20.275862	NaN	NaN
2	Sardinero_Valdecilla	33	14.233333	20.655738	NaN	NaN
2	Valdecilla_Sardinero	33	16.172222	18.308276	1.709153	1.830719
2	Sardinero_Valdecilla	34	15.191667	19.357614	0.341768	0.435490
2	Valdecilla_Sardinero	34	13.016667	22.586428	NaN	NaN
2	Sardinero_Valdecilla	35	13.766667	21.355932	NaN	NaN
2	Valdecilla_Sardinero	35	16.661111	17.982860	2.917968	2.888898
2	Sardinero_Valdecilla	36	16.677778	17.791594	1.918502	2.133056
2	Valdecilla_Sardinero	36	13.633333	21.564792	NaN	NaN
2	Sardinero_Valdecilla	37	13.050000	22.528736	NaN	NaN
2	Valdecilla_Sardinero	37	19.650000	15.151758	3.111270	2.399044
2	Sardinero_Valdecilla	38	14.920833	20.203716	2.743422	3.646673
2	Valdecilla_Sardinero	38	10.883333	27.013783	NaN	NaN
2	Valdecilla_Sardinero	39	15.533333	19.296592	2.718609	3.176572
3	Sardinero_Valdecilla	2	13.283333	22.132999	NaN	NaN
3	Valdecilla_Sardinero	2	18.038889	16.708106	3.375456	3.301943
3	Sardinero_Valdecilla	3	13.579167	21.785499	1.207030	2.024987
3	Valdecilla_Sardinero	3	12.483333	23.551402	NaN	NaN
3	Sardinero_Valdecilla	4	13.266667	22.160804	NaN	NaN
3	Valdecilla_Sardinero	4	12.233333	24.037075	0.191968	0.371918
3	Sardinero_Valdecilla	5	13.533333	21.990085	1.780657	2.701553
3	Valdecilla_Sardinero	5	13.116667	22.414231	NaN	NaN
3	Sardinero_Valdecilla	6	12.283333	23.934871	NaN	NaN
3	Valdecilla_Sardinero	6	17.770833	17.648626	5.134603	5.104993
3	Sardinero_Valdecilla	7	13.558333	21.730522	0.736546	1.140447
3	Sardinero_Valdecilla	8	13.166667	22.329114	NaN	NaN
3	Valdecilla_Sardinero	8	16.061111	19.165596	4.366868	4.783998
3	Sardinero_Valdecilla	9	14.279167	20.607817	0.498957	0.701469
3	Valdecilla_Sardinero	9	13.500000	21.777778	NaN	NaN
3	Sardinero_Valdecilla	10	15.850000	18.548896	NaN	NaN
3	Valdecilla_Sardinero	10	15.583333	18.868922	0.259272	0.313937
3	Sardinero_Valdecilla	11	15.970833	18.491396	1.240398	1.424782
3	Valdecilla_Sardinero	11	15.400000	19.090909	NaN	NaN
3	Sardinero_Valdecilla	12	13.016667	22.586428	NaN	NaN
3	Valdecilla_Sardinero	12	17.244444	17.086629	0.995034	0.979507
3	Sardinero_Valdecilla	13	13.316667	22.077597	NaN	NaN
3	Sardinero_Valdecilla	14	20.733333	14.180064	NaN	NaN
3	Valdecilla_Sardinero	14	16.483333	17.859862	0.848528	0.919389
3	Sardinero_Valdecilla	15	18.787500	16.539819	5.531951	4.096796
3	Valdecilla_Sardinero	15	15.300000	19.215686	NaN	NaN
3	Sardinero_Valdecilla	16	13.333333	22.050000	NaN	NaN

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
3	Valdecilla_Sardiner	16	16.077778	18.306144	0.648146	0.745621
3	Sardiner_Valdecilla	17	16.716667	17.831579	2.354782	2.318910
3	Valdecilla_Sardiner	17	13.750000	21.381818	NaN	NaN
3	Sardiner_Valdecilla	18	14.183333	20.728555	NaN	NaN
3	Valdecilla_Sardiner	18	17.505556	16.868601	1.452998	1.336102
3	Sardiner_Valdecilla	19	15.127778	19.477652	0.862222	1.137335
3	Valdecilla_Sardiner	19	12.966667	22.673522	NaN	NaN
3	Sardiner_Valdecilla	20	12.683333	23.180026	NaN	NaN
3	Valdecilla_Sardiner	20	16.370833	18.123524	1.832847	1.968030
3	Sardiner_Valdecilla	21	12.483333	23.551402	NaN	NaN
3	Valdecilla_Sardiner	21	12.150000	24.197531	NaN	NaN
3	Sardiner_Valdecilla	22	10.016667	29.351082	NaN	NaN
3	Valdecilla_Sardiner	22	15.233333	19.321169	0.586578	0.740837
3	Sardiner_Valdecilla	23	13.333333	22.125627	0.882652	1.524669
3	Valdecilla_Sardiner	23	12.450000	23.614458	NaN	NaN
3	Sardiner_Valdecilla	24	13.733333	21.407767	NaN	NaN
3	Valdecilla_Sardiner	24	15.795833	18.954989	2.511395	2.889401
3	Sardiner_Valdecilla	25	13.950000	21.154712	0.985356	1.500294
3	Valdecilla_Sardiner	25	16.650000	17.657658	NaN	NaN
3	Sardiner_Valdecilla	26	10.850000	27.096774	NaN	NaN
3	Valdecilla_Sardiner	26	16.237500	18.146872	0.878591	1.002023
3	Sardiner_Valdecilla	27	14.058333	21.110778	1.546651	2.407243
3	Sardiner_Valdecilla	28	13.533333	21.724138	NaN	NaN
3	Valdecilla_Sardiner	28	15.733333	18.862023	1.809543	2.291816
3	Sardiner_Valdecilla	29	15.733333	18.741907	0.976957	1.191809
3	Valdecilla_Sardiner	29	16.316667	18.018386	NaN	NaN
3	Sardiner_Valdecilla	30	13.366667	21.995012	NaN	NaN
3	Valdecilla_Sardiner	30	20.937500	15.756244	8.983074	5.517848
3	Sardiner_Valdecilla	31	15.766667	18.837143	1.911563	2.096271
3	Valdecilla_Sardiner	31	13.750000	21.381818	NaN	NaN
3	Sardiner_Valdecilla	32	14.200000	20.704225	NaN	NaN
3	Valdecilla_Sardiner	32	17.070833	17.377928	1.895090	1.876181
3	Sardiner_Valdecilla	33	16.208333	18.212942	1.153858	1.388664
3	Valdecilla_Sardiner	33	16.400000	17.926829	NaN	NaN
3	Sardiner_Valdecilla	34	15.416667	19.070270	NaN	NaN
3	Valdecilla_Sardiner	34	17.091667	17.226956	0.760787	0.766751
3	Sardiner_Valdecilla	35	14.870833	19.897284	1.312714	1.919301
3	Sardiner_Valdecilla	36	13.366667	21.995012	NaN	NaN
3	Sardiner_Valdecilla	37	16.779167	17.748695	2.288918	2.223769
3	Valdecilla_Sardiner	37	14.283333	20.583431	NaN	NaN
3	Sardiner_Valdecilla	38	13.083333	22.471338	NaN	NaN
3	Valdecilla_Sardiner	38	16.054167	18.645532	2.670288	2.666395
3	Sardiner_Valdecilla	39	13.995833	21.138598	1.304364	1.898364
101	Sardiner_Valdecilla	1	15.762500	18.770625	1.391999	1.794301
101	Valdecilla_Sardiner	2	25.808333	13.379625	11.437434	6.000105
101	Sardiner_Valdecilla	3	16.825000	17.504400	0.826472	0.825401
102	Sardiner_Valdecilla	2	15.695833	18.827740	1.347520	1.501745
102	Valdecilla_Sardiner	3	15.161111	19.874902	2.959276	3.733267
102	Sardiner_Valdecilla	4	19.550000	15.080707	1.199460	0.920604