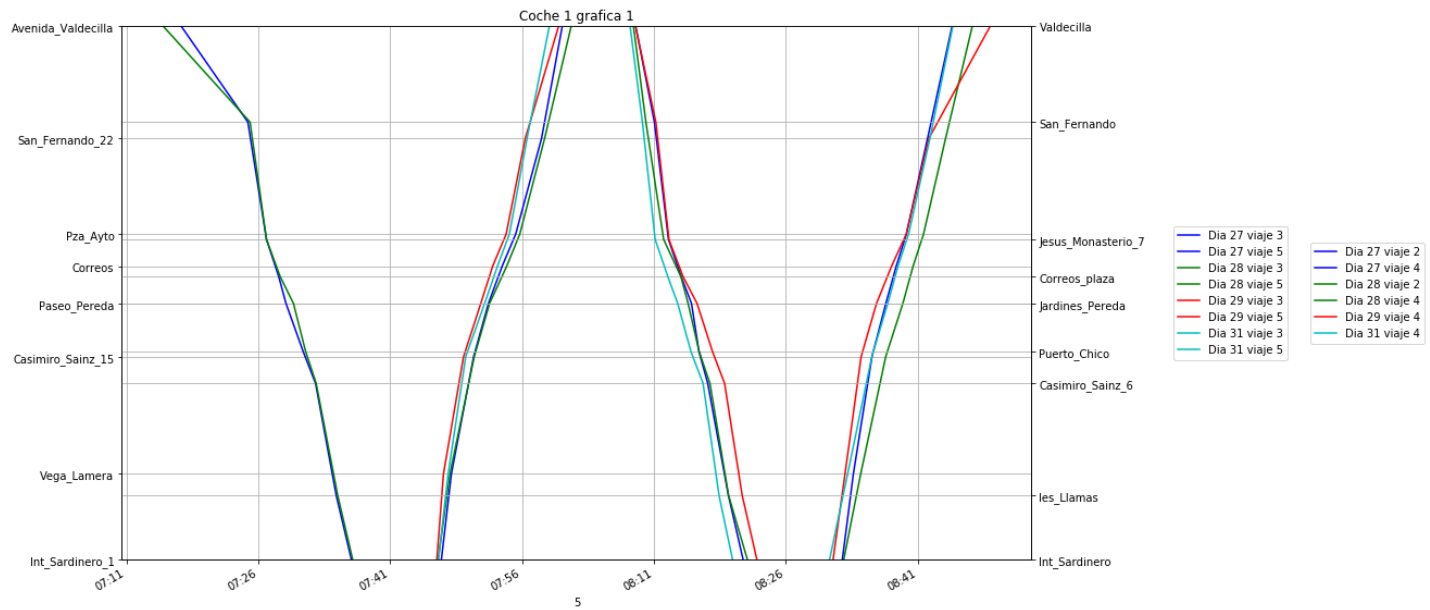


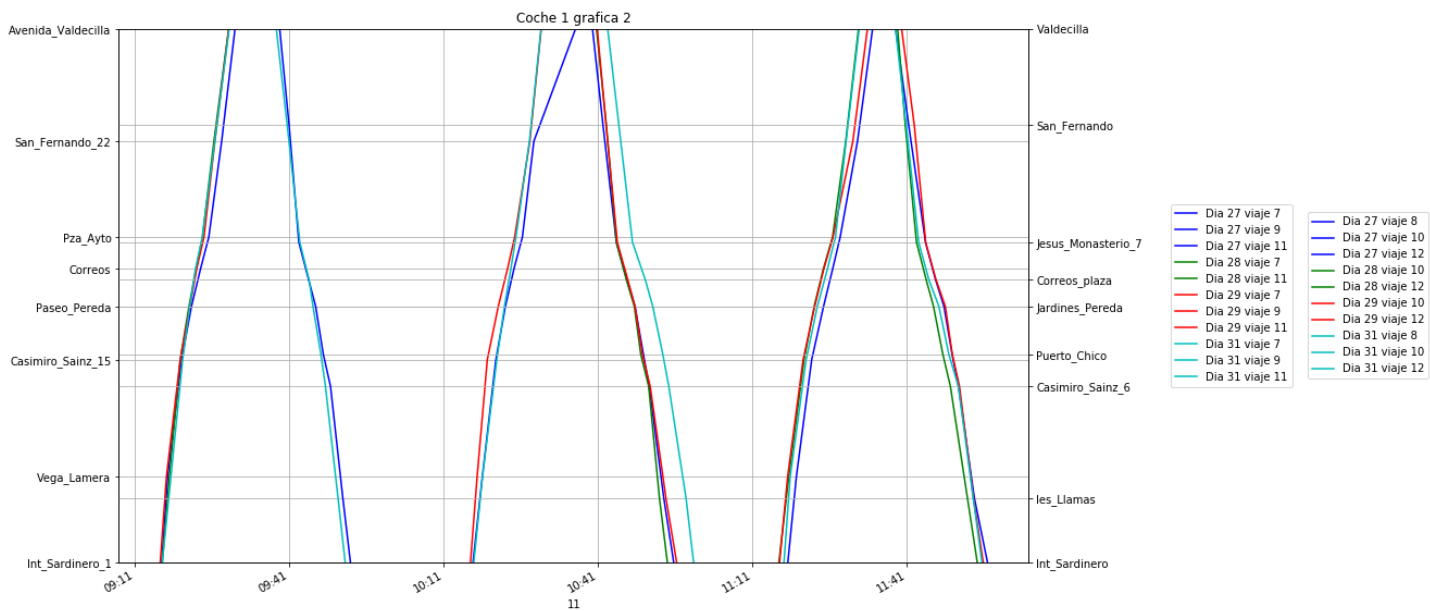
Coche 1 grafica 1

Gráfico evolución:



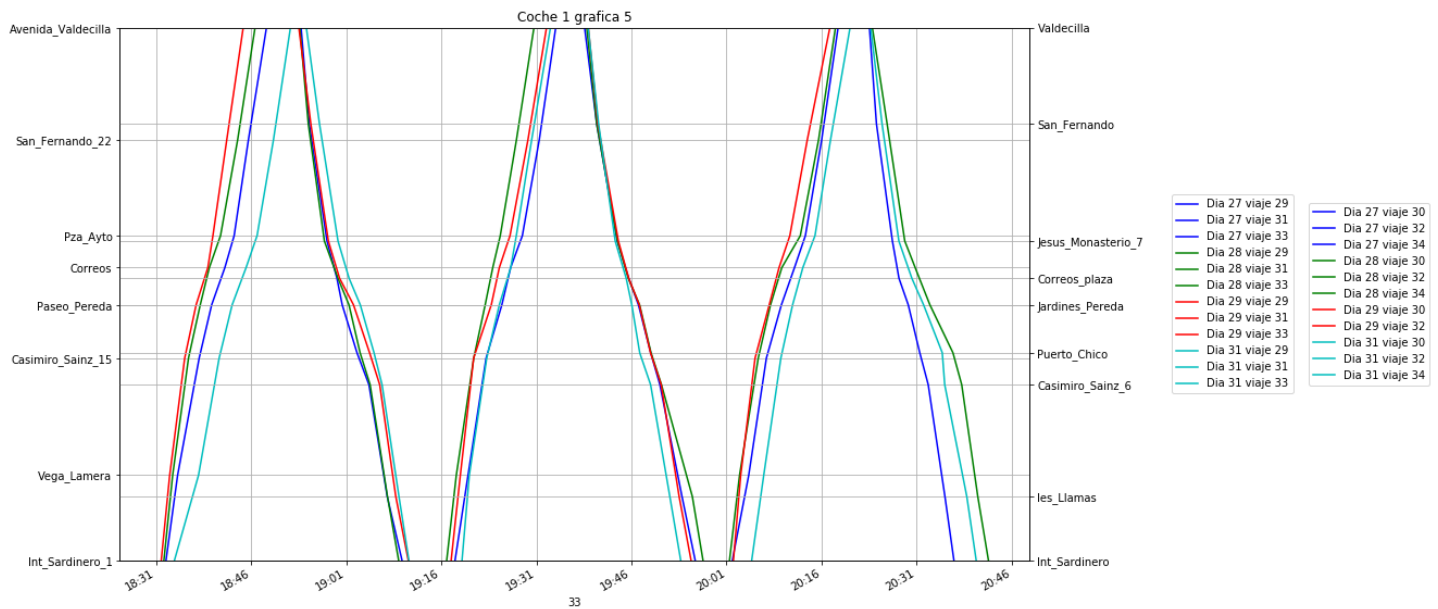
Coche 1 grafica 2

Gráfico evolución:



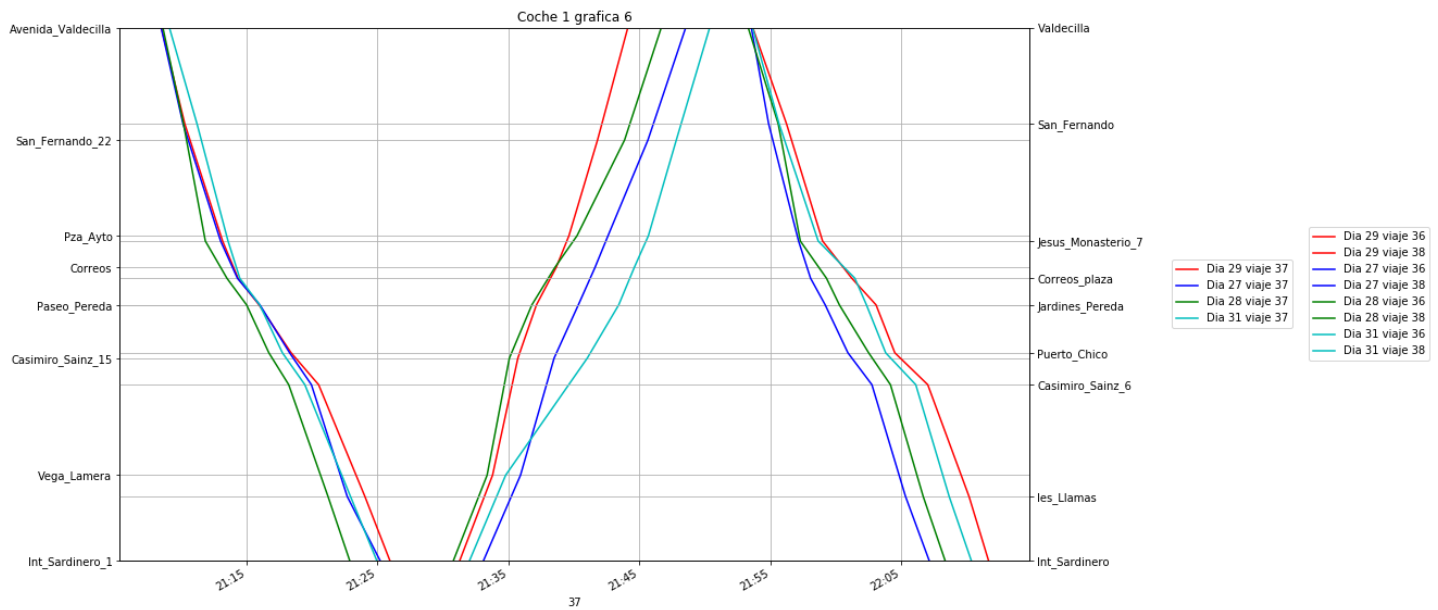
Coche 1 grafica 3

Gráfico evolución:



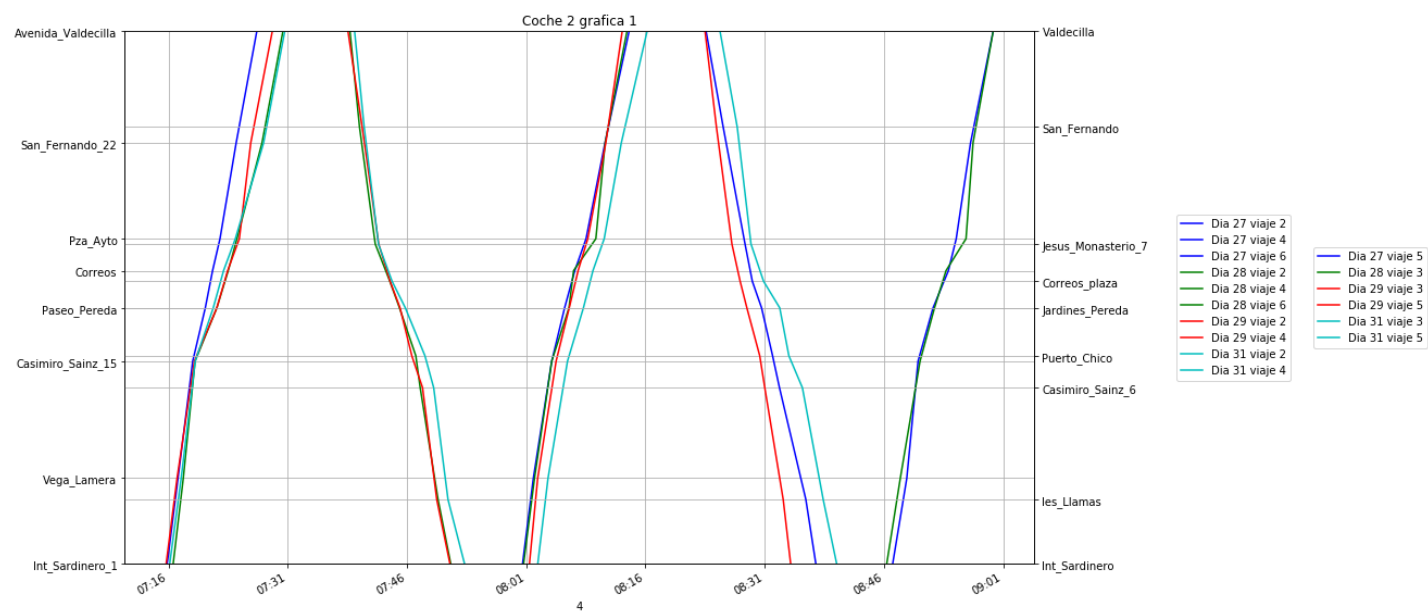
Coche 1 grafica 6

Gráfico evolución:



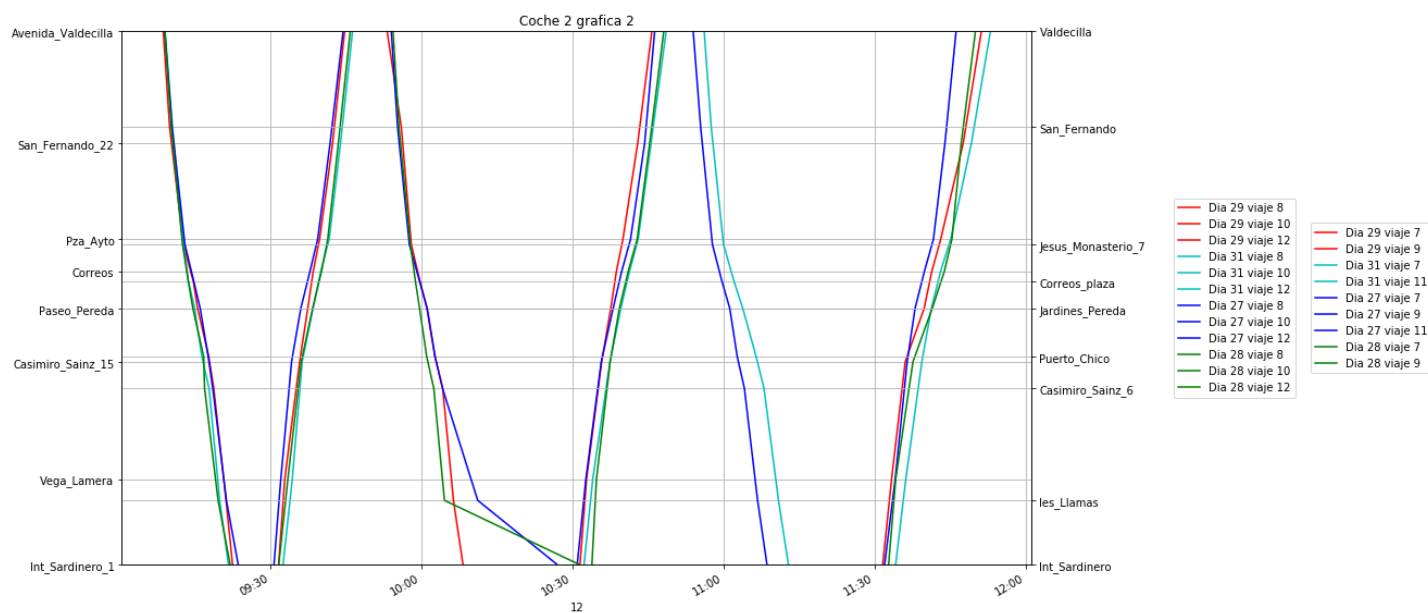
Coche 2 grafica 1

Gráfico evolución:



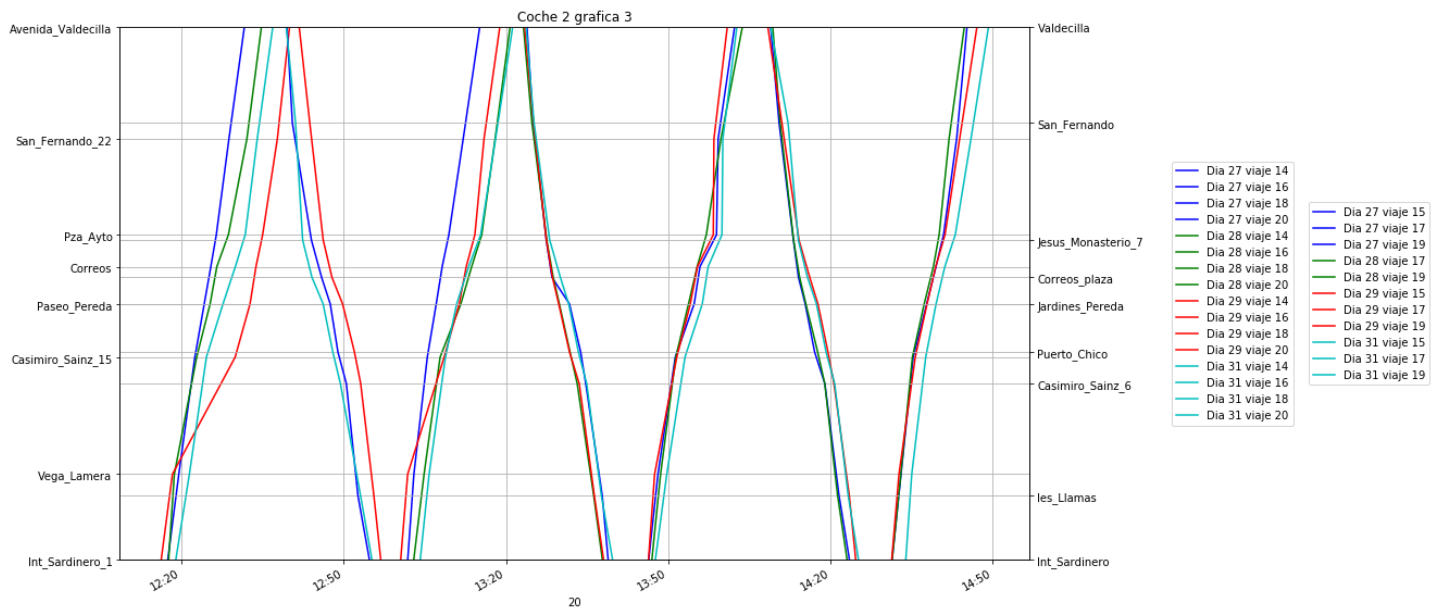
Coche 2 grafica 2

Gráfico evolución:



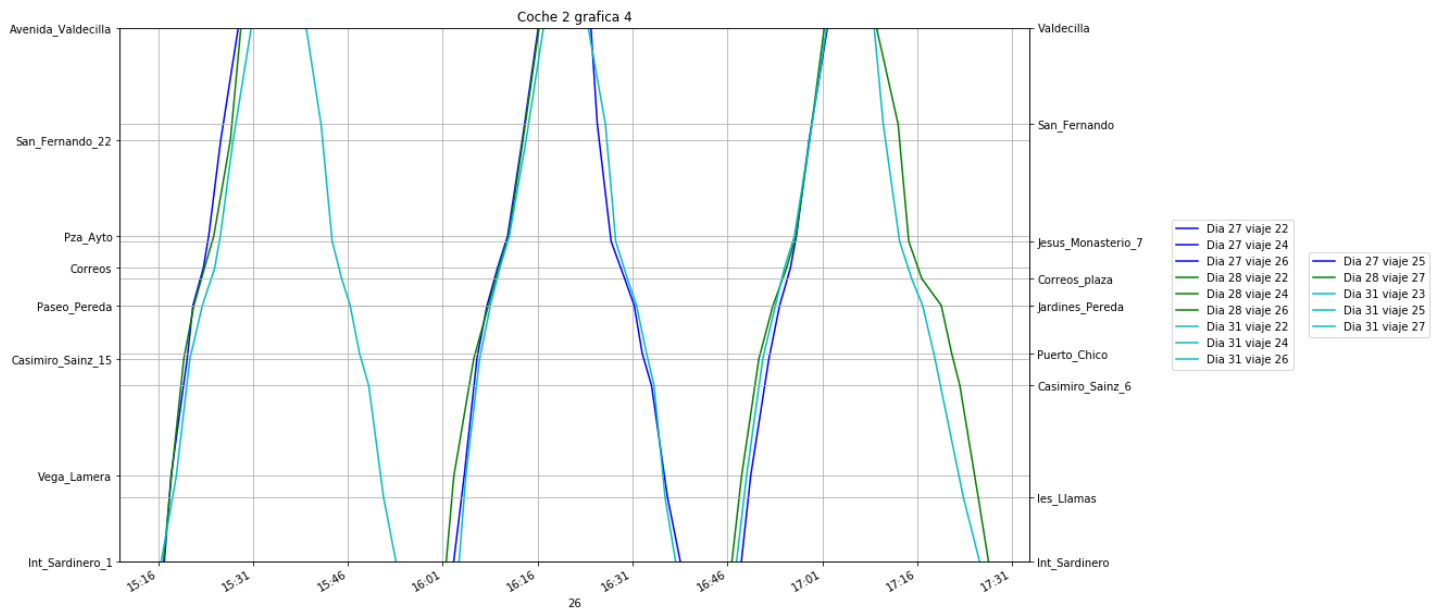
Coche 2 grafica 3

Gráfico evolución:



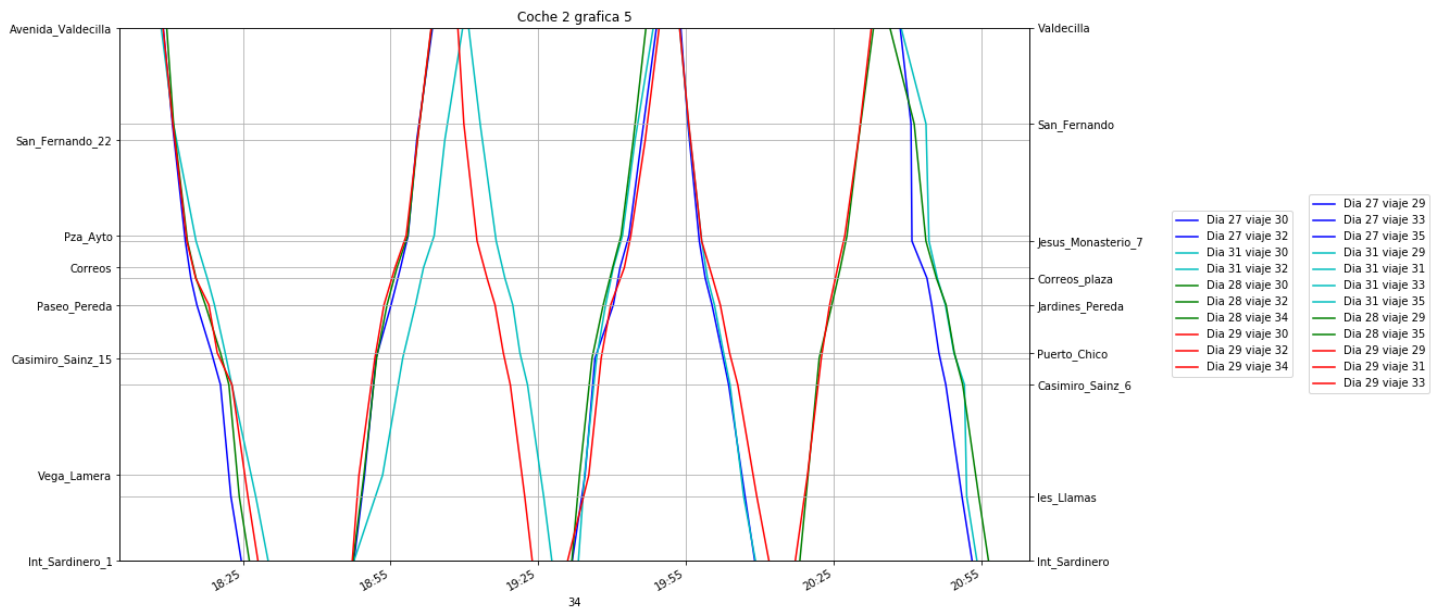
Coche 2 grafica 4

Gráfico evolución:



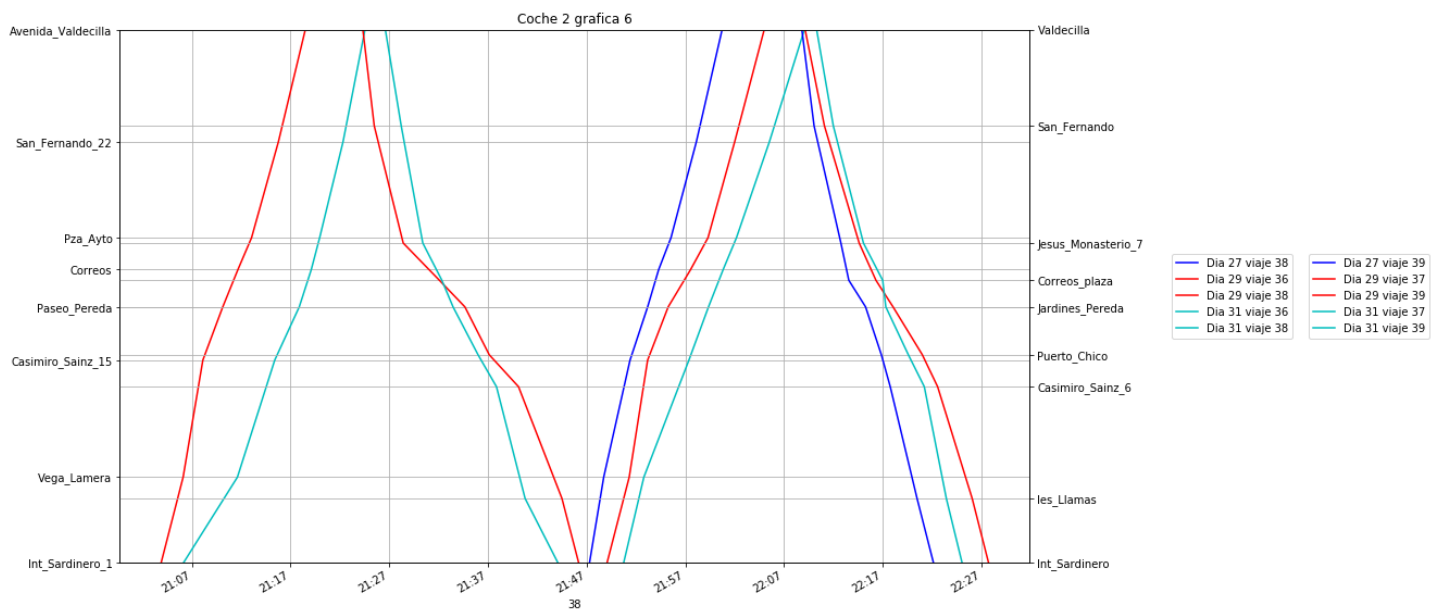
Coche 2 grafica 5

Gráfico evolución:



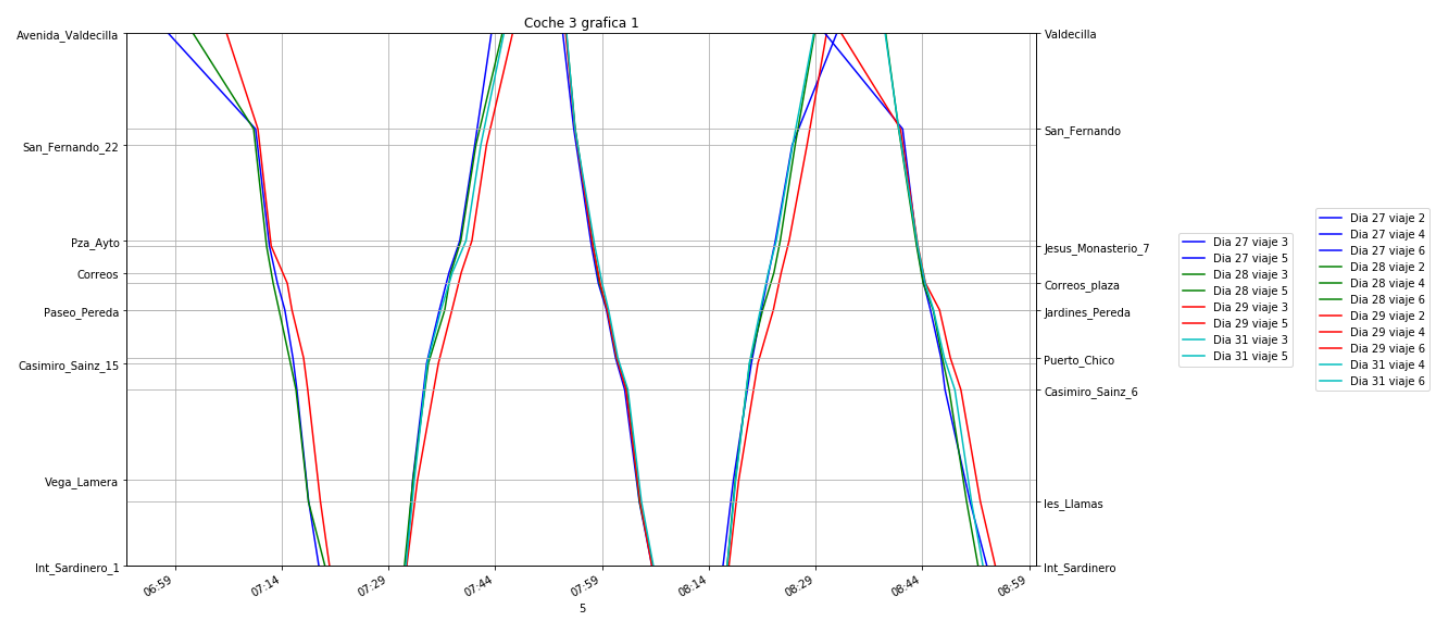
Coche 2 grafica 6

Gráfico evolución:



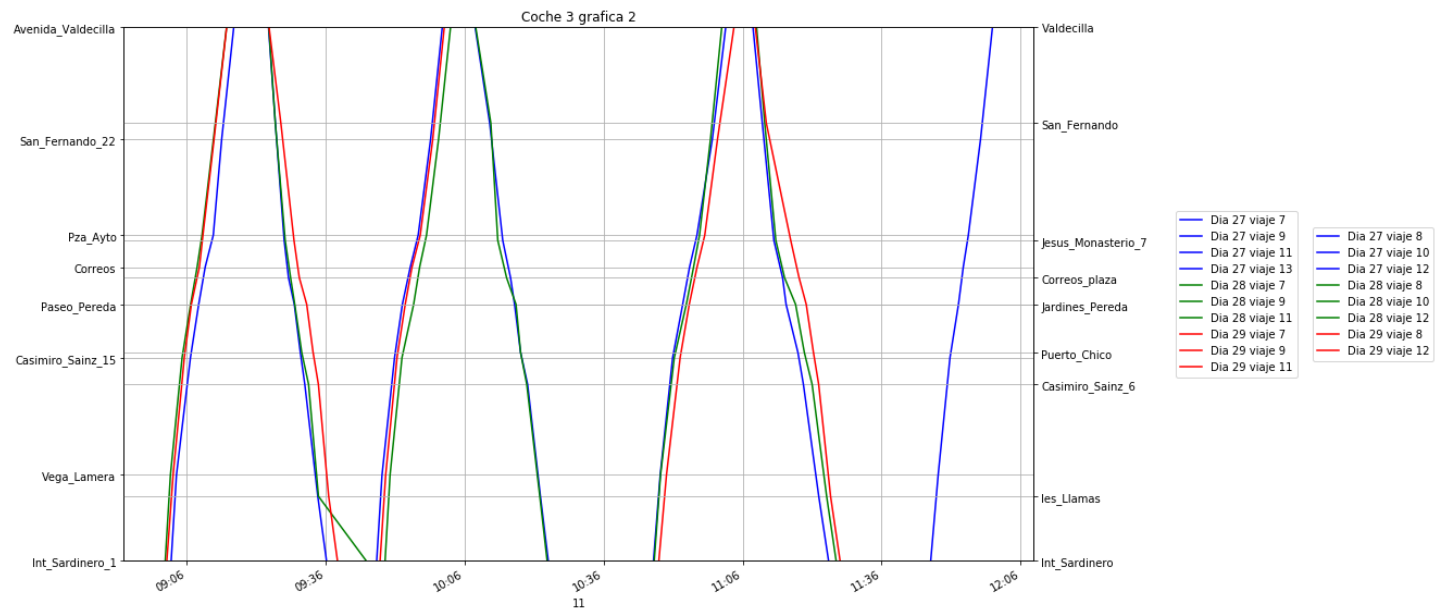
Coche 3 grafica 1

Gráfico evolución:



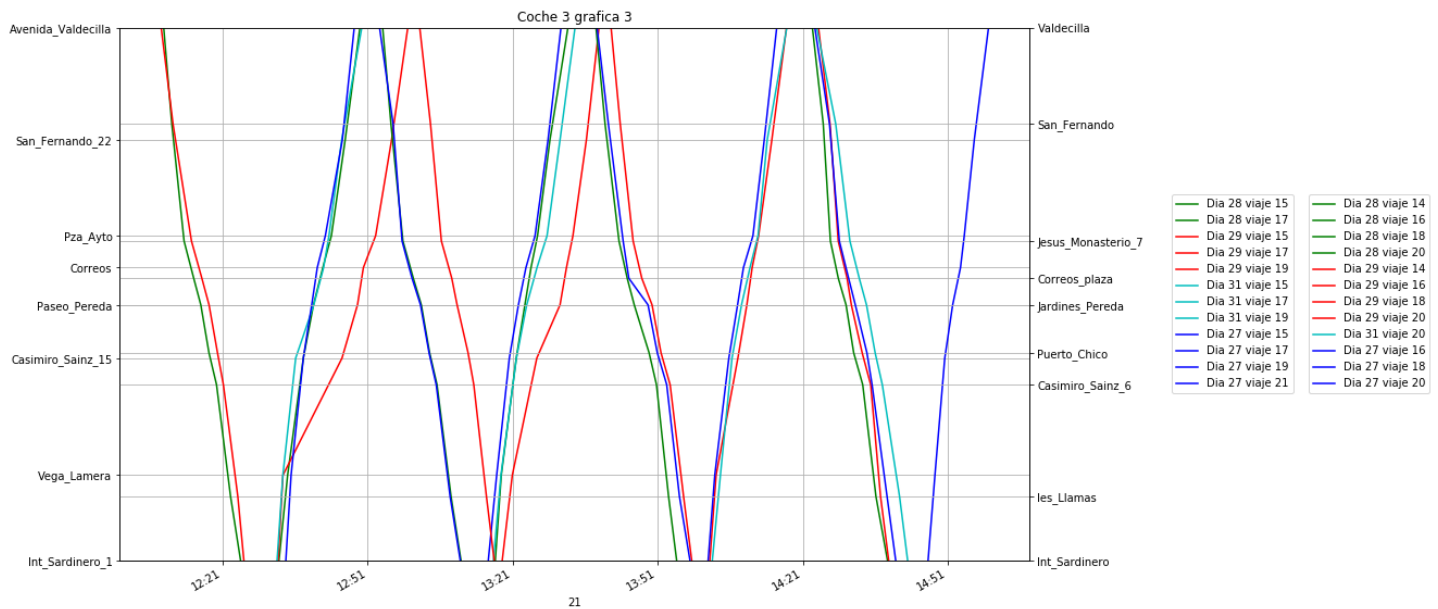
Coche 3 grafica 2

Gráfico evolución:



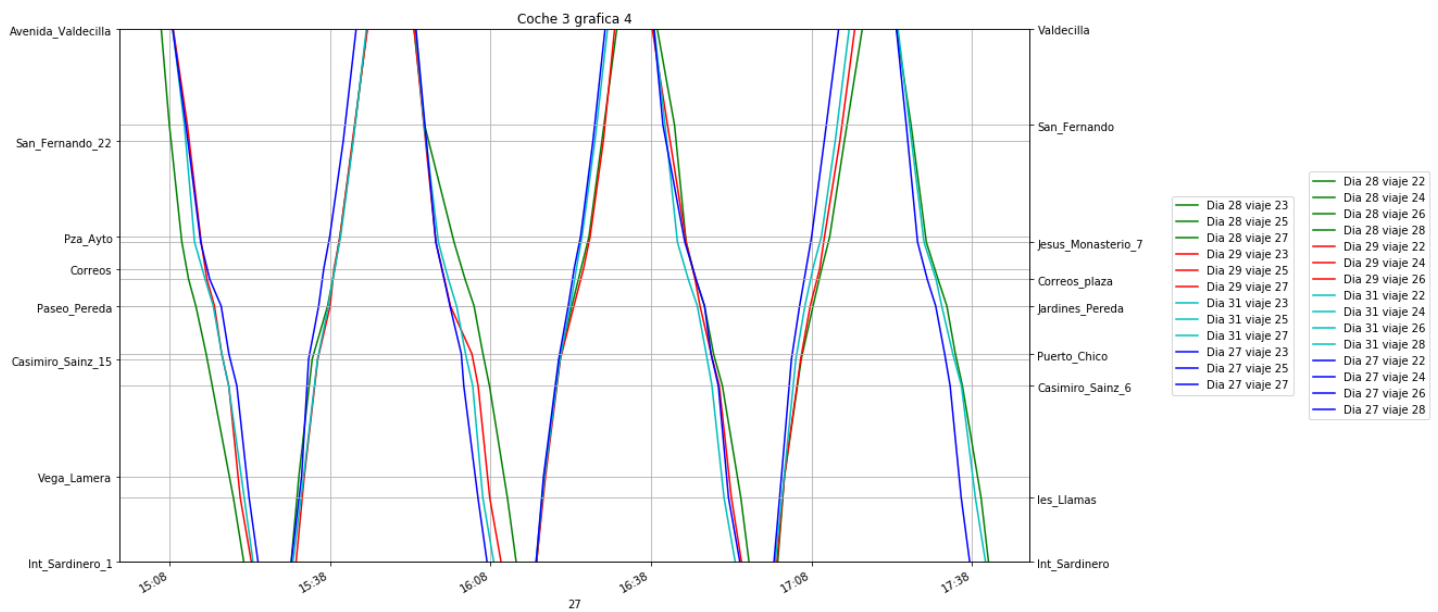
Coche 3 grafica 3

Gráfico evolución:



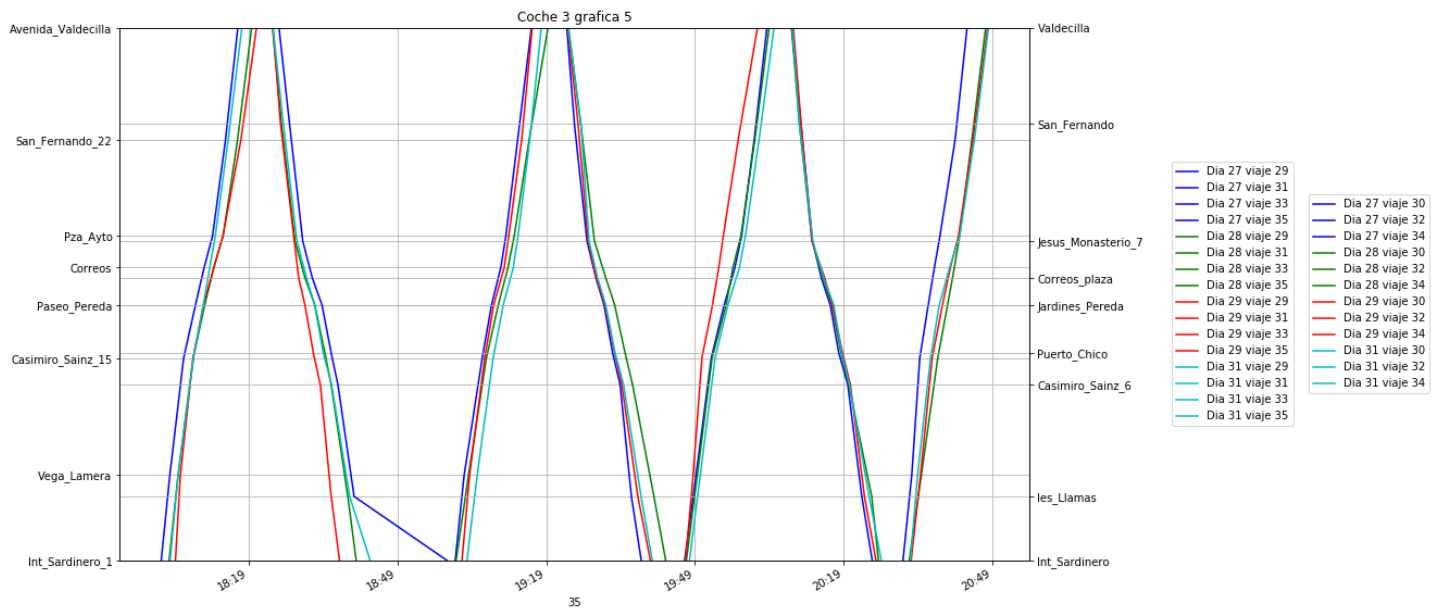
Coche 3 grafica 4

Gráfico evolución:



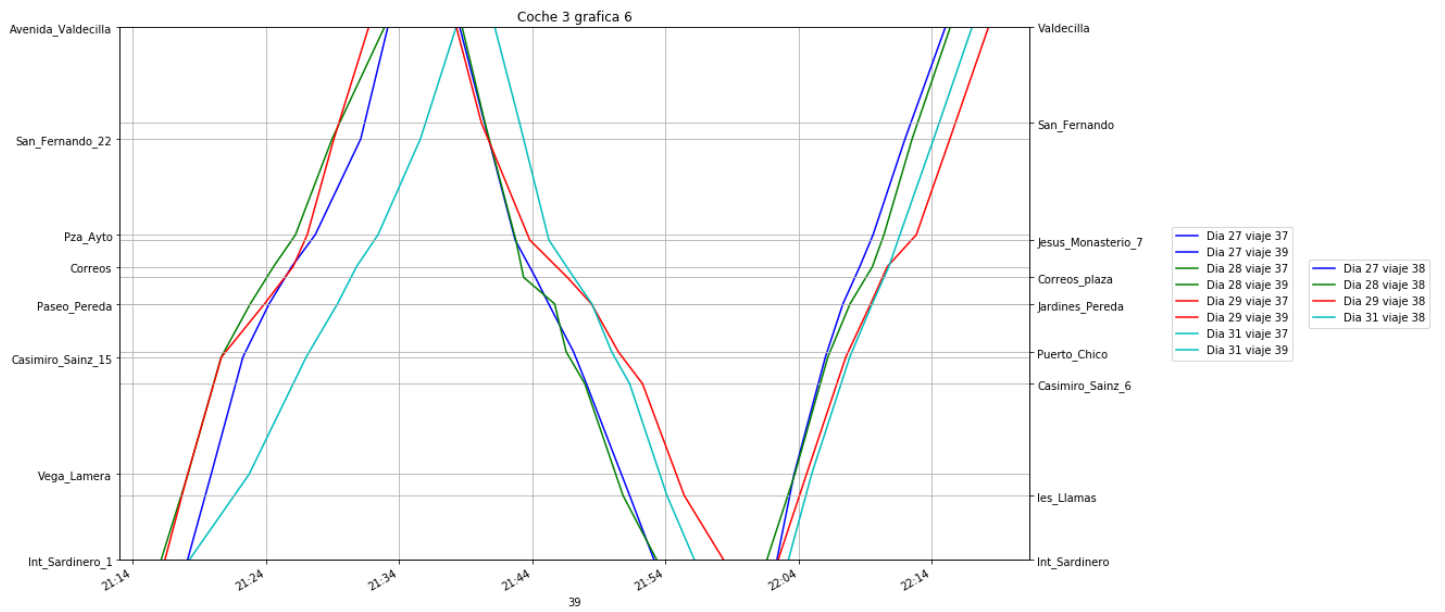
Coche 3 grafica 5

Gráfico evolución:



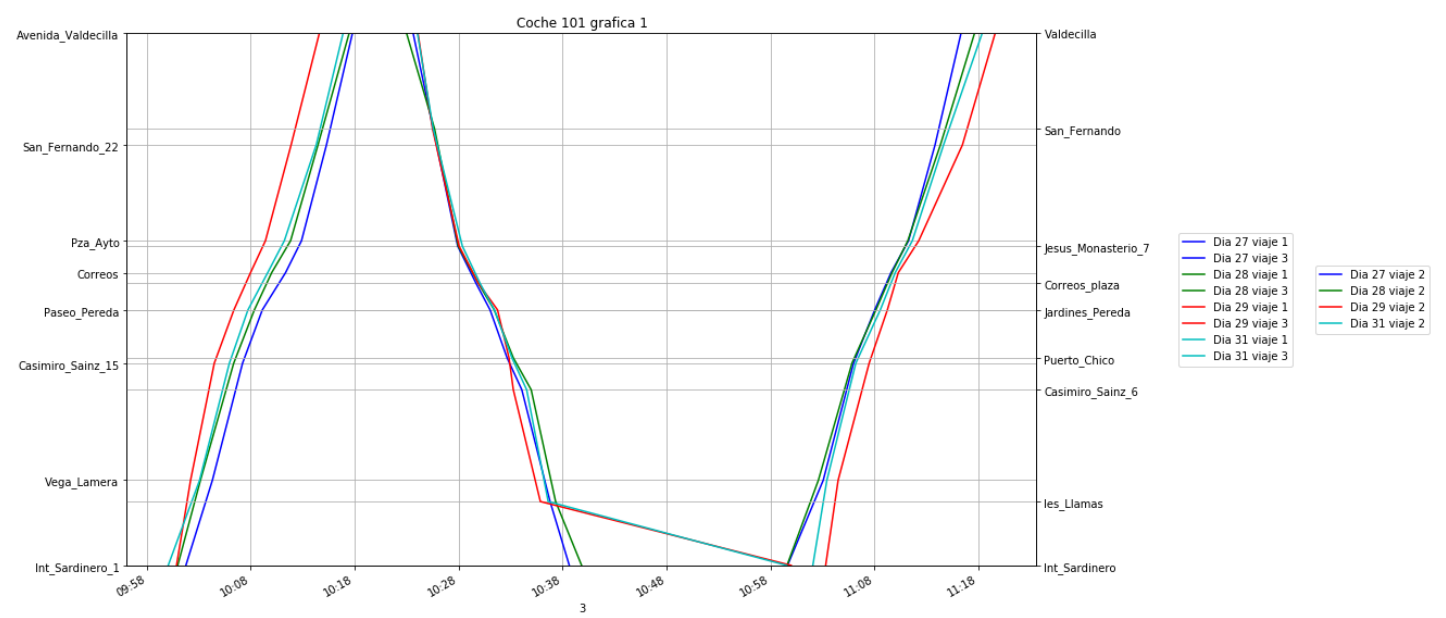
Coche 3 grafica 6

Gráfico evolución:



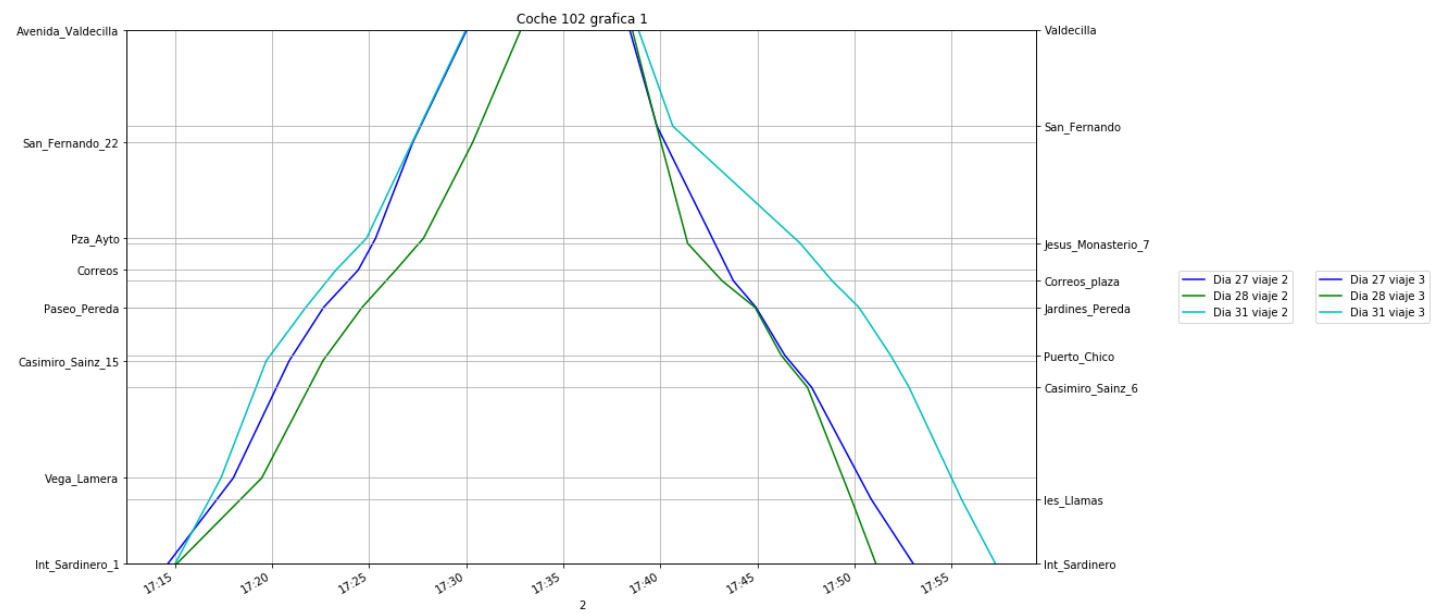
Coche 101 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:



Coche 102 grafica 1

Gráfico evolución:

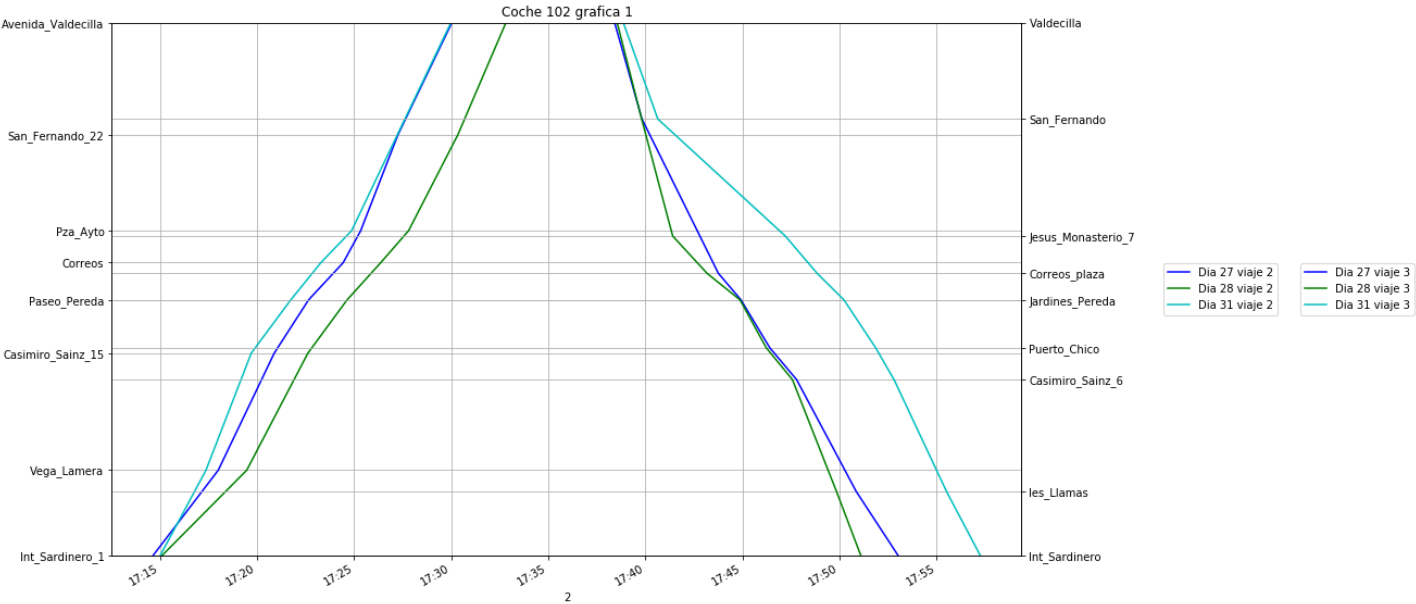


Tabla resumen velocidades y tiempos

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
1	Valdecilla_Sardinerio	2	20.450000	14.418245	1.555635	1.096798
1	Sardinerio_Valdecilla	3	13.837500	21.334769	1.029147	1.583680
1	Valdecilla_Sardinerio	4	12.654167	23.327147	0.930987	1.700069
1	Sardinerio_Valdecilla	5	14.745833	20.273920	2.266192	2.934930
1	Sardinerio_Valdecilla	7	13.350000	22.056399	0.615088	0.982067
1	Valdecilla_Sardinerio	8	13.550000	21.701390	0.259272	0.415245
1	Sardinerio_Valdecilla	9	15.561111	19.570124	3.773089	4.191323
1	Valdecilla_Sardinerio	10	15.408333	19.173879	1.217808	1.576591
1	Sardinerio_Valdecilla	11	15.891667	18.566254	1.088705	1.285527
1	Valdecilla_Sardinerio	12	16.475000	17.899699	1.060093	1.129722
1	Sardinerio_Valdecilla	13	19.425000	15.516292	3.528443	2.806697
1	Valdecilla_Sardinerio	14	16.604167	17.850967	1.795177	1.785667
1	Sardinerio_Valdecilla	15	17.137500	18.009338	4.786659	4.109078
1	Valdecilla_Sardinerio	16	16.450000	17.918087	0.984980	1.018891
1	Sardinerio_Valdecilla	17	17.091667	17.305692	1.484644	1.603121
1	Valdecilla_Sardinerio	18	15.129167	19.701418	2.088300	2.611628
1	Sardinerio_Valdecilla	19	15.733333	19.133467	2.779522	3.408413
1	Valdecilla_Sardinerio	20	15.016667	19.675178	1.236258	1.572950
1	Sardinerio_Valdecilla	21	13.954167	21.215716	1.358333	2.015271
1	Valdecilla_Sardinerio	22	13.841667	21.356970	1.171379	1.841311
1	Sardinerio_Valdecilla	23	13.129167	22.543471	1.234337	2.138828
1	Valdecilla_Sardinerio	24	13.883333	21.413566	1.693834	2.597481
1	Sardinerio_Valdecilla	25	14.875000	19.810354	0.805364	1.124485
1	Valdecilla_Sardinerio	26	22.050000	15.895128	12.153097	7.108105
1	Sardinerio_Valdecilla	27	14.279167	20.816077	1.701980	2.548044
1	Sardinerio_Valdecilla	29	15.350000	19.468492	2.289550	2.835734
1	Valdecilla_Sardinerio	30	16.229167	18.141640	0.721287	0.783507
1	Sardinerio_Valdecilla	31	14.645833	20.142062	0.991760	1.341521
1	Valdecilla_Sardinerio	32	16.637500	17.802189	1.624829	1.795999
1	Sardinerio_Valdecilla	33	16.016667	18.388659	0.779601	0.898023
1	Valdecilla_Sardinerio	34	16.083333	18.606174	2.536785	3.112223
1	Valdecilla_Sardinerio	36	16.050000	18.422150	1.369982	1.633424
1	Sardinerio_Valdecilla	37	15.600000	19.152251	2.252653	2.847652
1	Valdecilla_Sardinerio	38	15.812500	18.804964	1.927692	2.326917
2	Sardinerio_Valdecilla	2	13.220833	22.436019	1.381181	2.536670
2	Valdecilla_Sardinerio	3	13.100000	22.476019	0.625167	1.045810
2	Sardinerio_Valdecilla	4	12.954167	22.784375	0.911386	1.687546
2	Valdecilla_Sardinerio	5	13.077778	22.885435	2.047853	3.880152
2	Sardinerio_Valdecilla	6	13.008333	22.619695	0.530330	0.922171
2	Valdecilla_Sardinerio	7	13.458333	21.915703	0.888246	1.425414
2	Sardinerio_Valdecilla	8	13.695833	21.483798	0.447498	0.710891
2	Valdecilla_Sardinerio	9	28.261111	12.157618	11.630304	6.426141
2	Sardinerio_Valdecilla	10	15.045833	19.600636	0.974430	1.242971
2	Valdecilla_Sardinerio	11	15.666667	18.847953	1.461354	1.758098
2	Sardinerio_Valdecilla	12	17.454167	17.106432	2.390040	2.562658
2	Sardinerio_Valdecilla	14	18.233333	16.681473	4.000602	3.436363
2	Valdecilla_Sardinerio	15	15.372222	19.133681	0.393818	0.484490
2	Sardinerio_Valdecilla	16	16.625000	17.970707	2.273621	2.797185
2	Valdecilla_Sardinerio	17	15.037500	19.578540	0.660440	0.832548
2	Sardinerio_Valdecilla	18	15.550000	18.958650	0.944869	1.139628

coche	sentido	viaje	media tiempo viaje (minutos)	media velocidad comercial (km/h)	desviación tiempo viaje	desviación velocidad comercial
2	Valdecilla_Sardiner	19	15.191667	19.453150	1.250000	1.628565
2	Sardiner_Valdecilla	20	14.554167	20.295186	1.147168	1.604271
2	Sardiner_Valdecilla	22	12.705556	23.304217	1.338981	2.346427
2	Valdecilla_Sardiner	23	14.166667	20.752941	NaN	NaN
2	Sardiner_Valdecilla	24	13.783333	21.372642	0.765034	1.149461
2	Valdecilla_Sardiner	25	13.950000	21.078278	0.235702	0.356143
2	Sardiner_Valdecilla	26	14.138889	20.811529	0.504517	0.749048
2	Valdecilla_Sardiner	27	17.166667	17.141741	0.730677	0.729616
2	Valdecilla_Sardiner	29	18.391667	16.227779	2.639216	2.258581
2	Sardiner_Valdecilla	30	17.479167	17.153075	3.047536	2.546994
2	Valdecilla_Sardiner	31	15.991667	18.441911	1.261007	1.454219
2	Sardiner_Valdecilla	32	16.466667	17.991116	1.682425	1.788262
2	Valdecilla_Sardiner	33	16.172222	18.308276	1.709153	1.830719
2	Sardiner_Valdecilla	34	15.191667	19.357614	0.341768	0.435490
2	Valdecilla_Sardiner	35	16.661111	17.982860	2.917968	2.888898
2	Sardiner_Valdecilla	36	16.677778	17.791594	1.918502	2.133056
2	Valdecilla_Sardiner	37	19.650000	15.151758	3.111270	2.399044
2	Sardiner_Valdecilla	38	14.920833	20.203716	2.743422	3.646673
2	Valdecilla_Sardiner	39	15.533333	19.296592	2.718609	3.176572
3	Valdecilla_Sardiner	2	18.038889	16.708106	3.375456	3.301943
3	Sardiner_Valdecilla	3	13.579167	21.785499	1.207030	2.024987
3	Valdecilla_Sardiner	4	12.233333	24.037075	0.191968	0.371918
3	Sardiner_Valdecilla	5	13.533333	21.990085	1.780657	2.701553
3	Valdecilla_Sardiner	6	17.770833	17.648626	5.134603	5.104993
3	Sardiner_Valdecilla	7	13.558333	21.730522	0.736546	1.140447
3	Valdecilla_Sardiner	8	16.061111	19.165596	4.366868	4.783998
3	Sardiner_Valdecilla	9	14.279167	20.607817	0.498957	0.701469
3	Valdecilla_Sardiner	10	15.583333	18.868922	0.259272	0.313937
3	Sardiner_Valdecilla	11	15.970833	18.491396	1.240398	1.424782
3	Valdecilla_Sardiner	12	17.244444	17.086629	0.995034	0.979507
3	Sardiner_Valdecilla	13	13.316667	22.077597	NaN	NaN
3	Valdecilla_Sardiner	14	16.483333	17.859862	0.848528	0.919389
3	Sardiner_Valdecilla	15	18.787500	16.539819	5.531951	4.096796
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	18	17.505556	16.868601	1.452998	1.336102
3	Sardiner_Valdecilla	19	15.127778	19.477652	0.862222	1.137335
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	22	15.233333	19.321169	0.586578	0.740837
3	Sardiner_Valdecilla	23	13.333333	22.125627	0.882652	1.524669
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	26	16.237500	18.146872	0.878591	1.002023
3	Sardiner_Valdecilla	27	14.058333	21.110778	1.546651	2.407243
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	30	20.937500	15.756244	8.983074	5.517848
3	Sardiner_Valdecilla	31	15.766667	18.837143	1.911563	2.096271
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	34	17.091667	17.226956	0.760787	0.766751
3	Sardiner_Valdecilla	35	14.870833	19.897284	1.312714	1.919301
3	Sardiner_Valdecilla	37	16.779167	17.748695	2.288918	2.223769
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