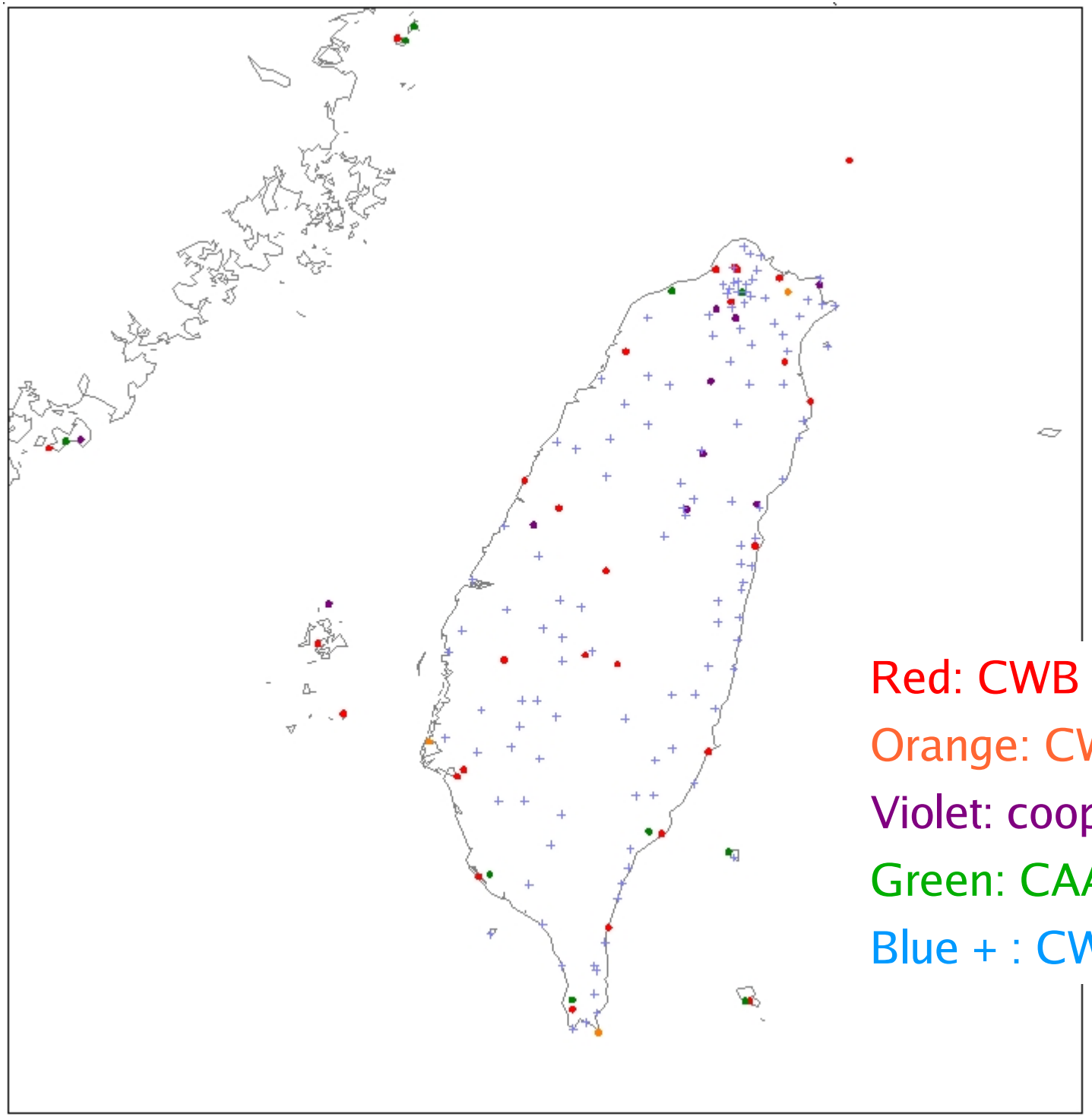
Weather Stations in Taiwan Area



Red: CWB SYNOP (28)

Orange: CWB radars (3)

Violet: cooperative stations (12)

Green: CAA airports (10)

Blue + : CWB AWS (118)

OBS_FGGE_PROC (a program used to convert all CWB obs to be in little_r format) updates:

Mesonet (eg: rsnf05071606.dat) and AWS (eg: shp2005-07-16_0006.txt) data processing

update latitude/longitude/elevation of Taiwan stations in STATION.METAR

STATION.METAR is a subset of global METAR station table. It covers CAA domain 1. It is used for getting lat/lon/elev for METAR stations.
CWB's metar data (eg: rsaf05071606.dat) have no station elevation information and have lower lat/lon precision.

Prevent outputting SYNOP 58xxx and 59xxx stations which have 46xxx counterparts.

59358 = 46741 = Tainan
59559 = 46759 = Hengchun
59562 = 46766 = Taitung
58968 = 46692 = Taipei
59567 = 46762 = Lanyu
58974 = 46695 = Pengchiayu
59158 = 46749 = Taichung

Exception: keep sounding of 58968, remove 46692. Because sounding is launched in Panchiao station and 58968 contains more accurate lat/lon/elev.

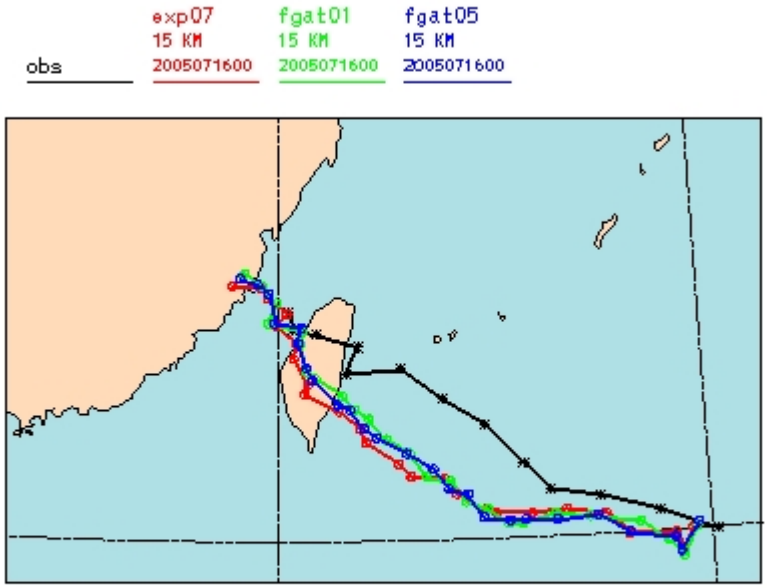
FGAT and AWS experiments

exp07: 2005071400: SI + WRFVAR
2005071406 afterwards,
WRF 6h forecast + WRFVAR

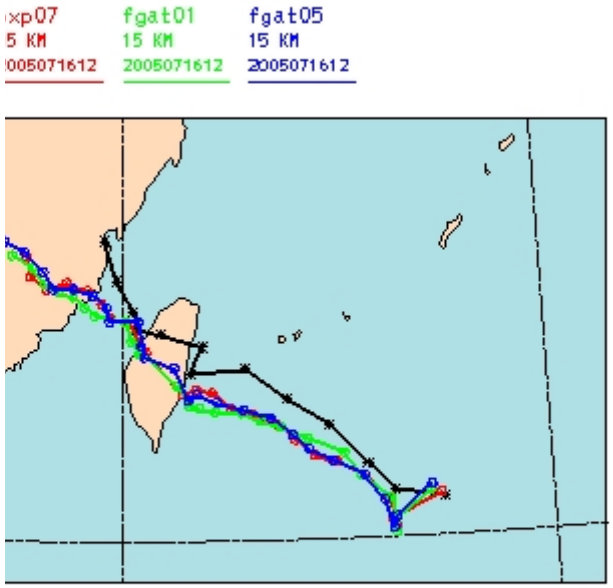
fgat01: 2005071400: SI + WRFVAR
2005071406 afterwards,
WRF 3h-9h hourly forecasts + WRFVAR_FGAT

fgat05: 2005071400: SI + WRFVAR
2005071406 afterwards,
WRF 3h-9h hourly forecasts + WRFVAR_FGAT
fgat01 + mesonet + AWS

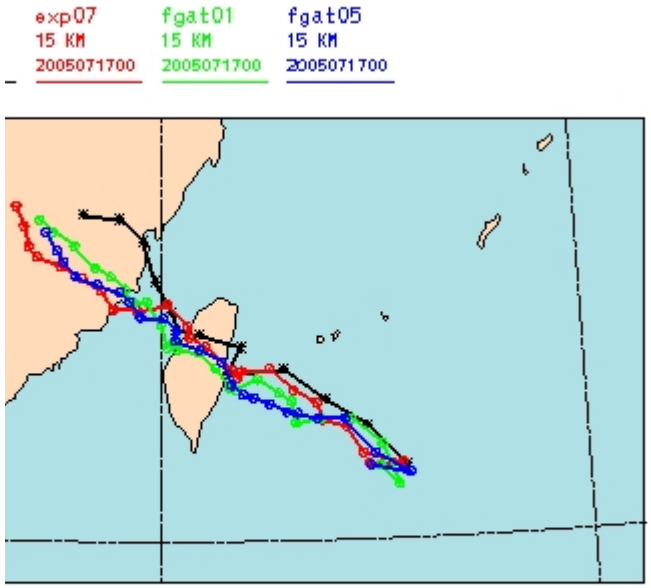
		Exp07 d01	Exp07 d02	Fgat01 d01	Fgat01 d02	Fgat05 d01	Fgat05 d02
SYNOP	2005072600	489	162	1470	575	1637	839
	2005071612	494	152	1435	549	1594	805
	2005071700	498	158	1495	587	1657	845
	2005071712	502	151	1427	543	1589	801
METAR	2005072600	154	67	911	402	909	400
	2005071612	134	59	709	285	703	278
	2005071700	151	69	910	405	907	403
	2005071712	133	58	721	286	715	280
SHIP	2005072600	123	39	144	46	144	46
	2005071612	102	24	117	29	117	29
	2005071700	118	30	138	35	138	35
	2005071712	100	27	118	33	118	33
BUOY	2005072600	68	13	170	35	170	35
	2005071612	72	13	174	37	174	37
	2005071700	84	14	185	41	185	41
	2005071712	66	11	179	35	179	35
SOUND	2005072600	198	57	198	57	197	56
	2005071612	166	45	166	45	165	44
	2005071700	194	59	196	61	195	60
	2005071712	166	46	169	48	168	47
AIREP	2005072600	1068	379	1323	479	1323	479
	2005071612	1594	481	1829	580	1829	580
	2005071700	1036	326	1259	427	1259	427
	2005071712	1327	395	1570	461	1570	461
PILOT	2005072600	42	5	42	5	42	5
	2005071612	42	4	42	4	42	4
	2005071700	45	5	45	5	45	5
	2005071712	45	5	45	5	45	5
SATOB	2005072600	11179	1515	15098	1791	15098	1791
	2005071612	12186	1307	16961	1670	16961	1670
	2005071700	9853	1410	13719	1824	13719	1824
	2005071712	11428	1429	16212	1943	16212	1943
GPSREF	2005072600	340	0	660	150	660	150
	2005071612	240	0	240	0	240	0
	2005071700	347	0	347	0	347	0
	2005071712	319	0	1029	0	1029	366
QSCAT	2005072600	1853	0	3882	2096	3882	2096
	2005071612	2951	0	6546	2267	6546	2267
	2005071700	3387	4451	3387	4451	3387	4451
	2005071712	1865	0	4116	0	4116	0
SATEM	2005072600	420	39	434	39	434	39
	2005071612	323	41	376	41	376	41
	2005071700	217	18	251	18	251	18



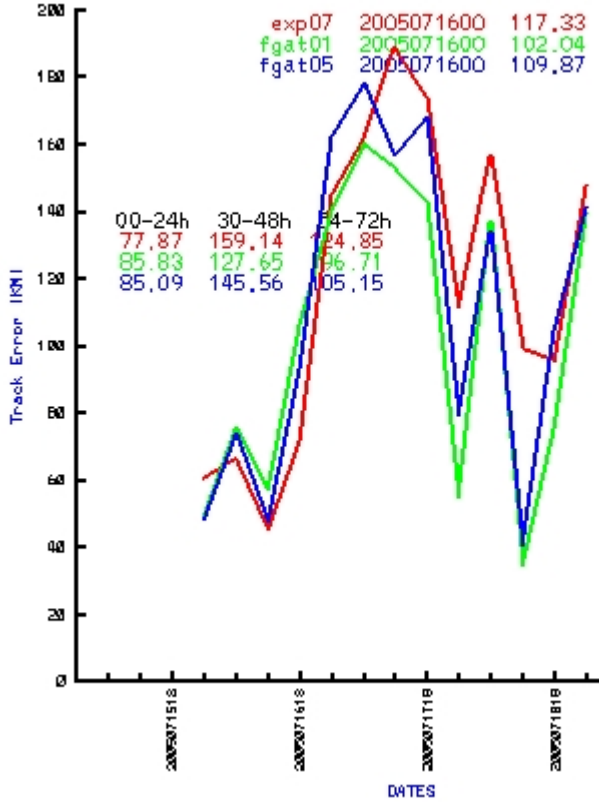
2005071600

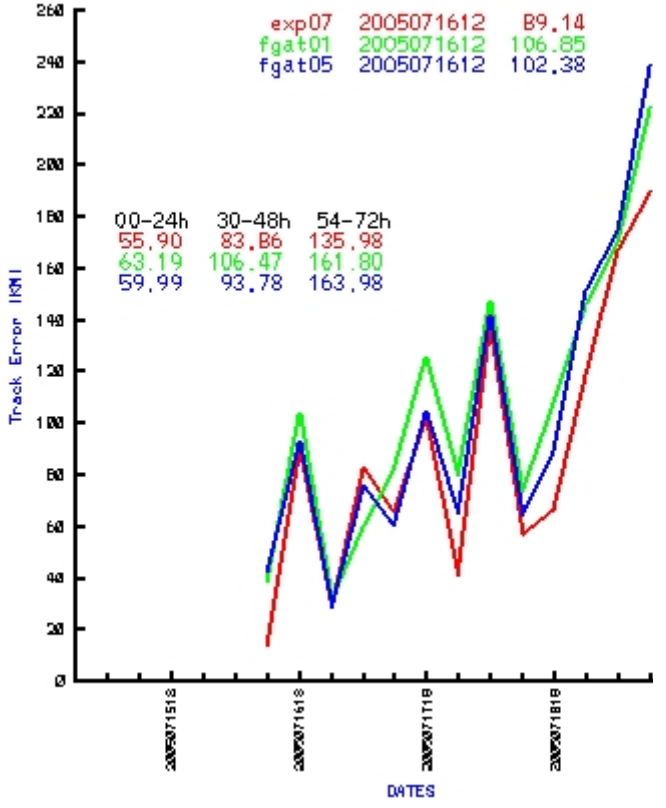


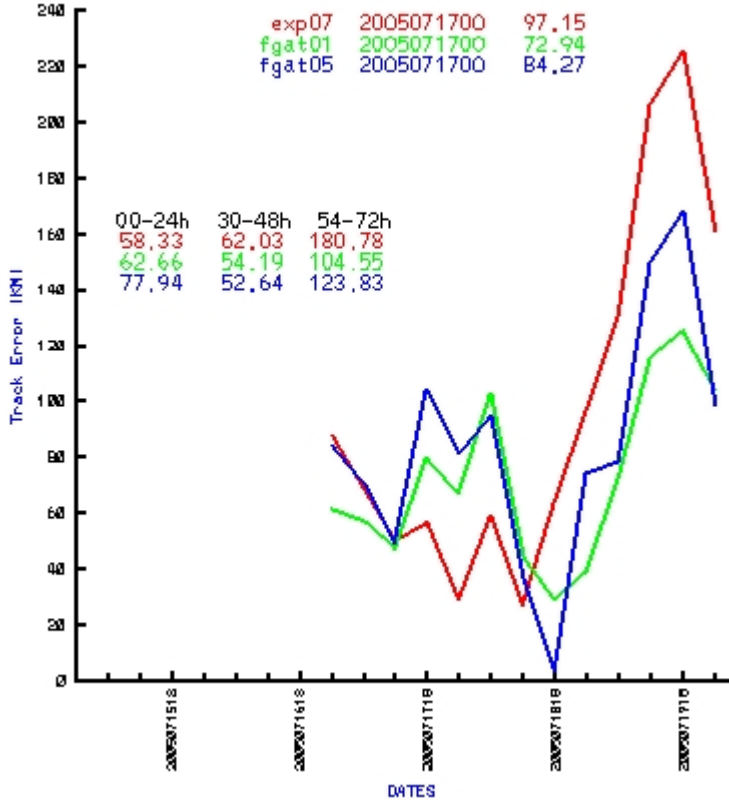
2005071612

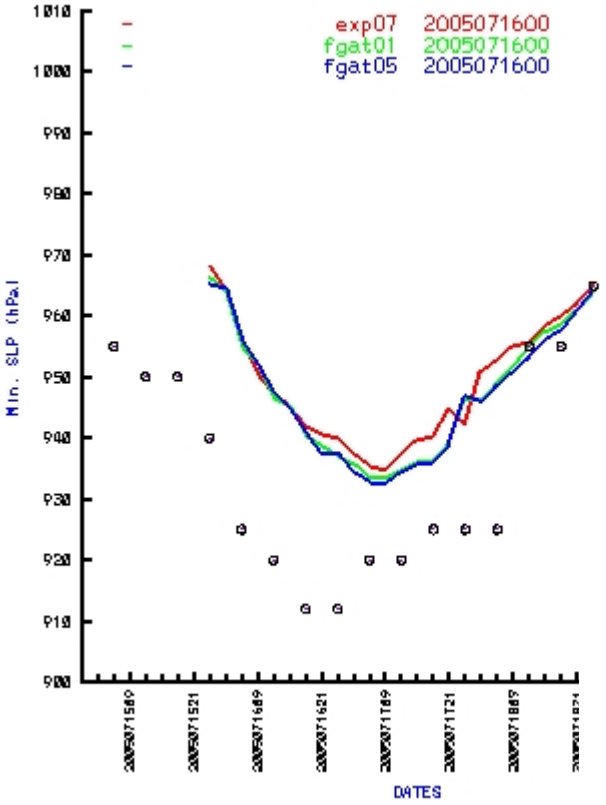


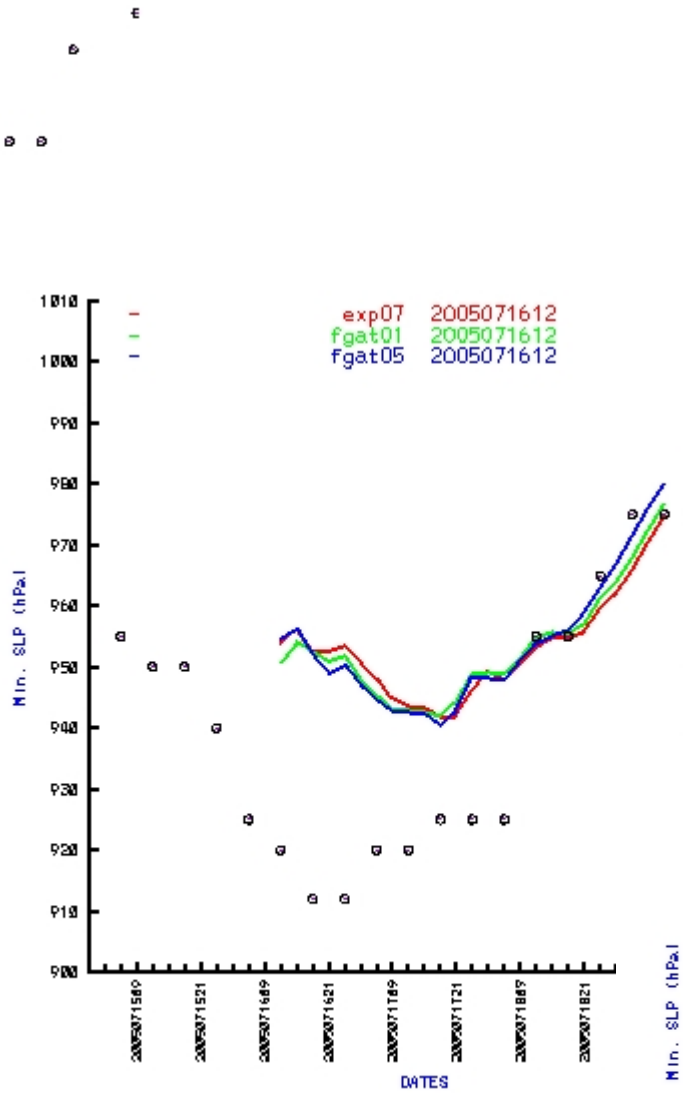
2005071700

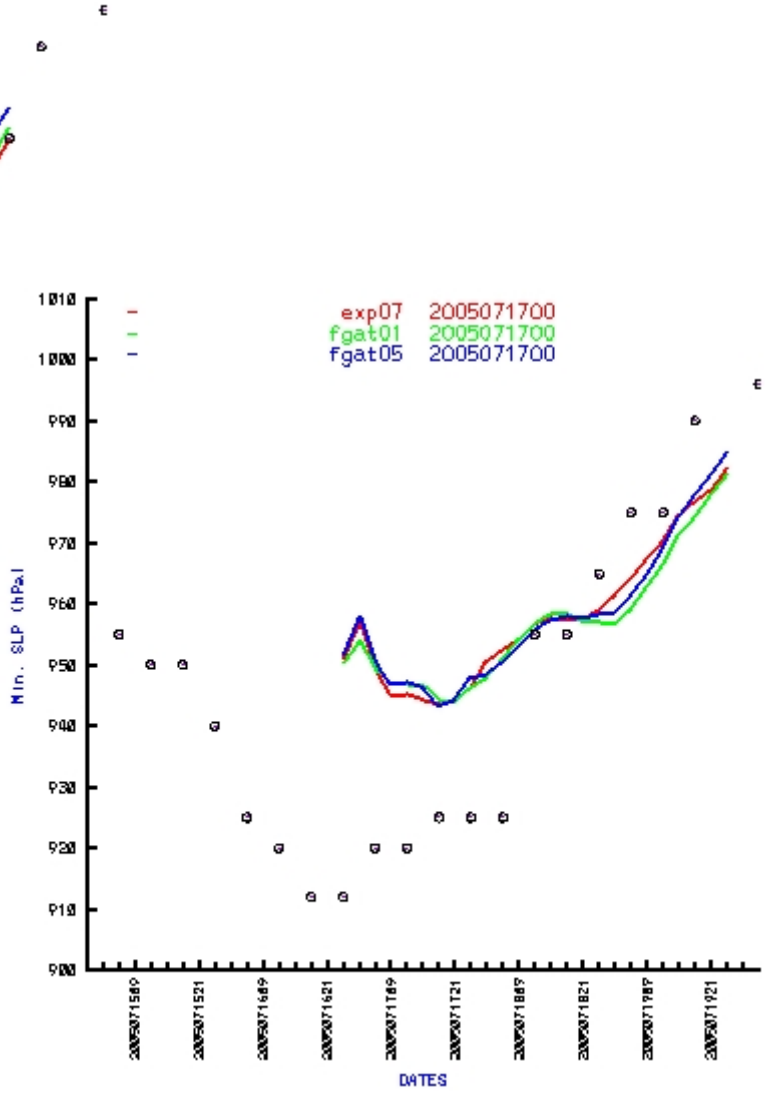







exp07 2005071600
fgat01 2005071600
fgat05 2005071600
Min. SLP (hPa)
DATES


exp07 2005071612
fgat01 2005071612
fgat05 2005071612
Min. SLP (hPa)
DATES


exp07 2005071700
fgat01 2005071700
fgat05 2005071700
Min. SLP (hPa)
DATES