Year	Month	Day	Samos Designator	Source	Description	Source of information
2009	June	18			Samos Transfer version 2.8 (calliope)	email
2009	Oct	4	NONE yat that point		Port vaisala probably installed	Emails
2009	Dec	12	WPAT, WPBP, WPRC, WPRD, WPRH, WPRS	Port vaisala	Email confirmed these were added on 12/12/2009 – probably not processed by SAMOS yet, as not discovered by them until 1/13/2010	1/13/2010 email
2010	Apr	6	WSBP/WSAT/WSRH/WSRD/WSRS	Stbd Vaisala	Stbd Vaisala added	Samos –Kristen
2010	Apr	6	PRC		PRC first begins??? Samos - Kristen	Samos –Kristen
2010	Apr	7	YMD, HMS, LA, LO, SOG, COG, GY, BP, SWR, AT, HRH, TIP, TWP, SST, SSC, SAL, WPBP, WPAT, WPRH, WPRC, WPRI, WPRD, WPRS	IMET & port vaisala SST & SSC might be FSI sensors at that time – not sure but FSI was set to inactive within the next few months	Sample string - must have been in process of adding stbd vaisala in correctly. Maybe went back to original string and made example then added stbd back in???? Kristen said stbd vaisala designators appeared 4/6 for first time SSC units mS/cm But: 1(~~mS~~/~~cm~~)*(1 S/1000 ~~mS~~)*(100 ~~cm~~/m) = 0.1 S/m so 1 mS/cm = 0.1 S/m PRC – not in this sample data This is also the date (or 4/6) that I am proposing that the WXT510 might have been retired – so from 12/12/2009 we "might" have had a WXT510 on the tower, but probably not after THE SAMPLE STRING MUST BE WHAT WE WERE USING PRIOR TO 4/6/2010	Sssg_on_memory sample file
2010	Apr	18	WPTD, WPTS also WSTD & WSTS	Port vaisala	Samos – Kristen says these designators first appeared	Samos - Kristen
2010	Nov	19	SST (already not from FSI)	Not from FSI	The FSI temperature sensor was set to "inactive" in Calliope some time ago due to a malfunction. However, it was left in place. At around 9:20 GMT 11/19/2010 it began to cause problems for other sensors in the RS485 data loop. First teh BPR data went missing, then corrupt SSCND and FL data began appearing - by 11:05 GMT most of the IMET and UCSW data was missing. The problem was discovered at 13:06 GMT and the UCSW section of the RS485 data loop was isolated (so most of the data returned). The problem was determined to be emanating from the FSI Temperature sensor. This sensor is now unplugged, and the data wires have been disconnected in the j-box in the bow thruster room.	ELOG
2010	Dec	17	SST, SSC (possibly)	FSI sensors	The FSI temp and conductivity sensors were physically removed	email
2011	Jan	1	GY	Phins III	???? when installed and used ???	
2011	Apr	28	YMD, HMS, LA, LO, SOG, COG,	IMET, Vaisala	PRC = rain intensity from stbd vaisala mm/h	Spreadsheet

			GY, BP, AT, HRH, TIP, TWP, SST, SSC, SAL, PRC, WPAT, WPRH, WPRC, WPRI, WPRD, WPRS, WPTD, WPTS, IWX, IWY, WSAT, WSRH, WSRC, WSRI, WSRD, WSRS, WSTD, WSTS, (WPBP, WSBP missing)	port & stbd	SSC soure listed as Thermosalinograph units mS/cm	
2011	June	12	YMD, HMS, LA, LO, SOG, COG, GY, BP, AT, HRH, TIP, TWP, SST, SSC, SAL, PRC, WPAT, WPRH, WPRC, WPRI, WPRD, WPRS, WPTD, WPTS, WSAT, WSRH, WSRC, WSRI, WSRD, WSRS, WSTD, WSTS, (WPBP, WSBP missing)	IMET, Vaisala port & stbd	Same as April 2011 but IWX and IWY not listed	Spreadsheet
2012	May	28	YMD, HMS, LA, LO, SOG, COG, GY, BP, AT, HRH, TIP, TWP, SST, SSC, SAL, PRC, WPAT, WPRH, WPRC, WPRI, WPRD, WPRS, WPTD, WPTS, WSAT, WSRH, WSRC, WSRI, WSRD, WSRS, WSTD, WSTS, IWX, IWY(WPBP, WSBP missing), SWR	IMET, Vaisala port & stbd	IWX and IWY back ??? PRC still listed as rain intensity from stbd vaisala SWR appears on this spreadsheet –was missing on Apr2011 & June2011 spreadsheets	spreadsheet
2013	Feb	2	BP, AT, HRH, TIP, TWP	IMET sensors	Last day these designators appear So this is when the IMET sensors go away – since 2011 & 2012 spreadsheets verify source as IMET_HRH humidity sensor there is no reason to believe that source changed until IMET type sensors were removed which was probably around this date	Samos-kristen
2013	Feb	9	SSC	SBE45	Long maintenance period – this is when Calliope went out and dslog came in. Cruise at24-01 (Dec 2012) SSC was verified to be in mS/cm; byat24-02 (Feb 2013 – first cruise entry after maintenance) SSC was verified to be in S/m Feb. 9, 2013 is the first data file I see set up with dslog style – it looks like a test data directory – but calling this the changeover date	
2013	May	6	LA, LO, SOG, COG	CNAV3050		

The IMET Tower sensors (except perhaps where PRC designator is concerned) all have independent designators based on instrument: IMET type, Port Vaisala, Stbd Vaisala

WPBP & WSBP seem to have periodically gone missing …

LA, LO, SOG, COG – did not change designators between different GPS, just started sending different – i.e. science switch

GY – did not change designators between different heading sources, just started sending different – i.e. science switch

SST, SSC, SAL – were originally from FSI sensors, then changed to SBE45 & SBE48 -> when exactly??

SWR – designator remained same when switched sensors – think first switch was the 2016 one

LWR – when did this first appear?

PRC – seems to have started out as a MET type sensor, and then changed over to duplicate of Stbd Vaisala rain intensity – but Kristen said data didn't look like duplication

After 4/6/2010 – PRC if and when it exists is a duplicate of the Stbd Vaisala rain intensity

I am unable to get access to edit PRC under rain intensity for the today-today I accidentally added

Imet_wndd & Imet_wnds if samos ever did get these they would have been associated with the Met type sensors, so would have same

Date range of 6/1/2005 to 2/2/2013

OUTSTANDING QUESTIONS:

1) SWR & LWR – seem to have a 9 day gap – but maybe there is no data for those days anyway?? All looked approved for those so I didn't want to change unnecessarily …

2) PRC – I ended up with an entry for PRC under rain rate that is range today-today and I don't know how to delete it.