

Data capture & handling

- Capture in field
- Station logbooks
- Registers
- Data - charts, loggers, manual readings
- Capture to PC file - methods
- Translation to database
- Tideda

Servicing visits

- Instruments operating correctly
- Sensor reading agrees with manual reading
- Silt in stilling well - detect *before* records affected
- Recent data appears sensible
- Battery power adequate
- Any events apparent
- General condition

Data collection process evolving



- Becoming more complex
- Features standard procedures, based on “best practice”
- Equipment getting more reliable
- More need for the human factor to be reliable, trained, with technical resources available
- technology change will continue

Station log books

- Should be one for each instrument at each site
- Keep secure & dry
- Fill in every visit
- Take original back to office, duplicate stays on site

Data registers

- A form for each type of data
 - Water-level
 - Rainfall
 - WQ probes, etc.
 - Gaugings
 - Pump tests?
- Keep secure & tidy
- Electronic possible

Water-level data register



Form WL

WATER-LEVEL/FLOW REGISTER

TYPE OF DATA: Chart = CH/No. Datalog = DP/No. Tape = Tape/No Telemetry = TE Missing Record = MR
 Edit correction = CD Rating = R Comment = C Water quality = WQ Gauging comment = GC

Type/ No.	ON			OFF			PROCESSING							TRANSFER DISK						
	Date	Time	G.H.	Date	Time	G.H.	Minimum			Maximum				Edit Y/N	File name	Filed by	Check by	To WRD		From WRD
							Date	Time	G.H.	Date	Time	G.H.					No.	Date	No.	Archived by

Time interval: Pulley size:
 RIVER: SITE: SITE No.: WATER-

Data capture from loggers

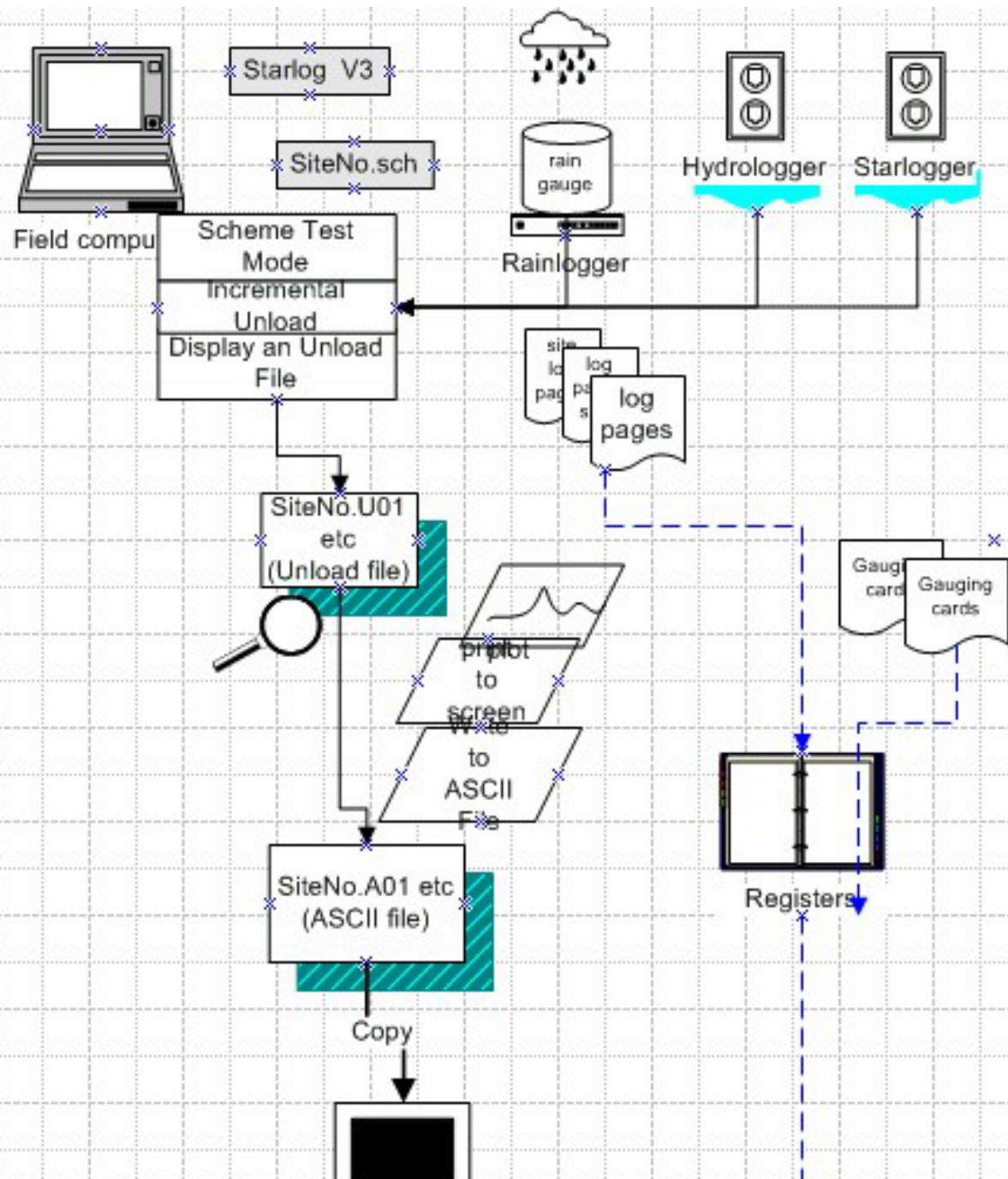
- Normally requires program on laptop to communicate with logger – supplied by logger supplier
- May require copy of logger program
- Data should always have more than one copy – i.e. floppy disk backup
- Data may not remain in logger – download may delete memory – and memory may fill or overflow
- Some modern loggers have removable cards (flash cards latest)
- PDAs will become an alternative to laptops

Translation to database

- Data files from loggers usually in own format
- Need translating, normally to ASCII format
- Most databases can read ASCII in
- Tideda has processes to read in data from Campbell, Unidata, Waterlog, etc.

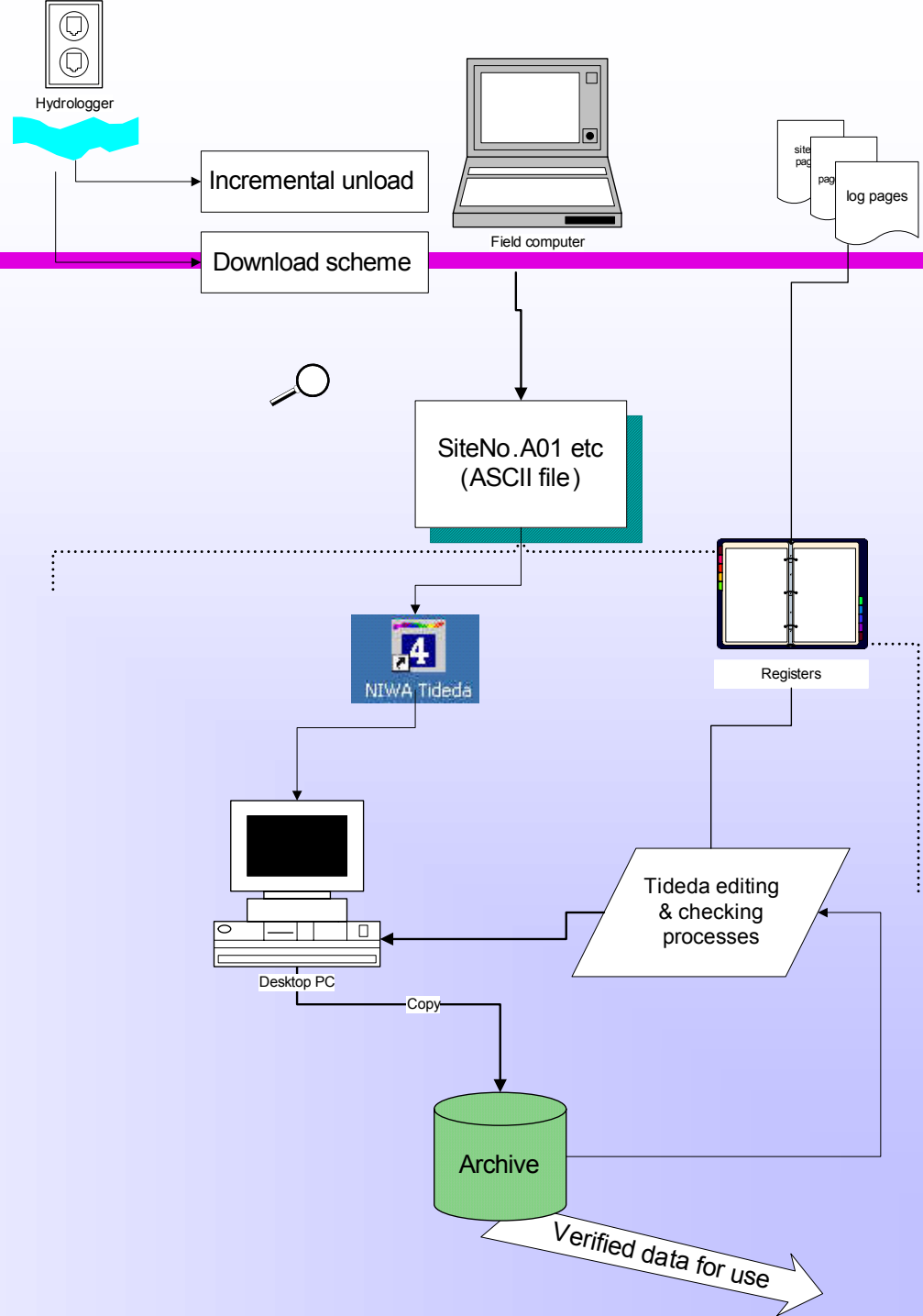
Schematic

■ Unidata



Schematic

■ Unidata



question

- Who would like copies of these forms in Word to be able to use?
- Who has register systems already that are adequate?
- Who has electronic (Excel?) systems that they are happy with?