Using Ard Mega

* Likely can be scaled back to Uno, but 8K SRAM convenient given ser prints in prototyping

Shields:

* GPRS (date/time & later…data transfer and sms daily summaries or alerts)
* SD (data logging)

Pin differences:

* SPI (SD)
* Mult HW serials
  + GPRS jumpers (“Serial1” instead of “gprsSerial”)

Design:

* 10K pot for h2o
  + calib
* 1K pot for food
  + calib
* Hinged box w/ mag reed switch for stall door
* PIR

Current version = 3.2

* Some of the major changes:
  + Consolidated redundant code (much of which involved SD fxns)
  + Added event and error check fxns for writing codes triggered by various events
  + Reorganized some logic flow and eliminated nested fxns (esp SD writes)
  + Standardized data string output for easy indexing
  + All other changes listed in header comment of sketch

Currently @ 23,604 bytes

Before start:

* There are 2 main intervals in prog…set low for easy debugging
  + Regular SD write interval
    - Sensors read and written
  + Aggregation
    - Each read amt consumed is added to agg total, which is written at this interval