First working code

#include <GSM.h>

// PIN Number for the SIM

#define PINNUMBER ""

GSM gsmAccess;

GSM\_SMS sms;

char senderNumber[20];

#include <AltSoftSerial.h>

#include <TinyGPS++.h>

#define GPSBaud 9600

AltSoftSerial ss;

TinyGPSPlus gps;

void setup() {

// initialize serial communications and wait for port to open:

Serial.begin(115200);

ss.begin(GPSBaud);

while (!Serial) {

; // wait for serial port to connect. Needed for native USB port only / debugging

}

Serial.println("Bike Tracker Booting...");

// connection state

boolean notConnected = true;

// Start GSM connection

while (notConnected) {

if (gsmAccess.begin(PINNUMBER) == GSM\_READY) {

notConnected = false;

} else {

Serial.println("Not connected");

delay(1000);

}

}

Serial.println("GSM initialized");

Serial.println("Waiting for messages");

}

void loop() {

char c;

//Parses the NMEA sentences (GPS data)

getGPS();

// If there are any SMSs available()

if (sms.available()) {

Serial.println("Message received from:");

// Get remote number

sms.remoteNumber(senderNumber, 20);

Serial.println(senderNumber);

//Reacts to the messages

while (c = sms.read()) {

String msg = String(c);

msg.toUpperCase();

Serial.print(msg);

if(msg.indexOf('LOCATION') >= 0){

sendGPS();

}

else if(msg.indexOf('HELP') >= 0){

sms.beginSMS(senderNumber);

sms.print("HELP PAGE");

sms.print("\nLocation - sends location");

sms.print("\nStatus - sends bunch of info for advanced users");

sms.print("\nOFF - puts device in lo power mode");

sms.print("\nON - device only reactivates if this command is sent after turnt off");

sms.print("\n\*Commands are not case sensitive");

sms.endSMS();

}

}

Serial.println("\nEND OF MESSAGE");

// Delete message from modem memory

sms.flush();

Serial.println("MESSAGE DELETED");

}

delay(1000);

}

void getGPS(){

while (ss.available() > 0)

gps.encode(ss.read());

}

void sendGPS(){

sms.beginSMS(senderNumber);

sms.print("Location: ");

sms.print(gps.location.lat(), 6);

sms.print(", ");

sms.print(gps.location.lng(), 6);

sms.endSMS();

}