// TTN Decoder for TTN OTAA Feather US915 DHT22 Sketch

// Link: https://github.com/mcci-catena/arduino-lmic/blob/master/examples/ttn-otaa-feather-us915-dht22/ttn-otaa-feather-us915-dht22.ino

function Decoder(bytes, port) {

// Decode an uplink message from a buffer

// (array) of bytes to an object of fields.

var decoded = {};

decoded.longitude = ((bytes[0]) << 24) | ((bytes[1]) << 16) | ((bytes[2]) << 8) | ((bytes[3]));

decoded.longitude = decoded.longitude / 10000000;

decoded.latitude = ((bytes[4]) << 56) | ((bytes[5]) << 48) | ((bytes[6]) << 40) | ((bytes[7]) << 32);

decoded.latitude = decoded.latitude / 10000000;

decoded.hdop = ((bytes[8]) << 72) | ((bytes[9]) << 64);

decoded.hdop = decoded.hdop / 100;

decoded.siv = (bytes[10]);

decoded.batt = ((bytes[11]) << 104) | ((bytes[12]) << 96);

decoded.batt = decoded.batt / 10000 ;

return decoded;

}