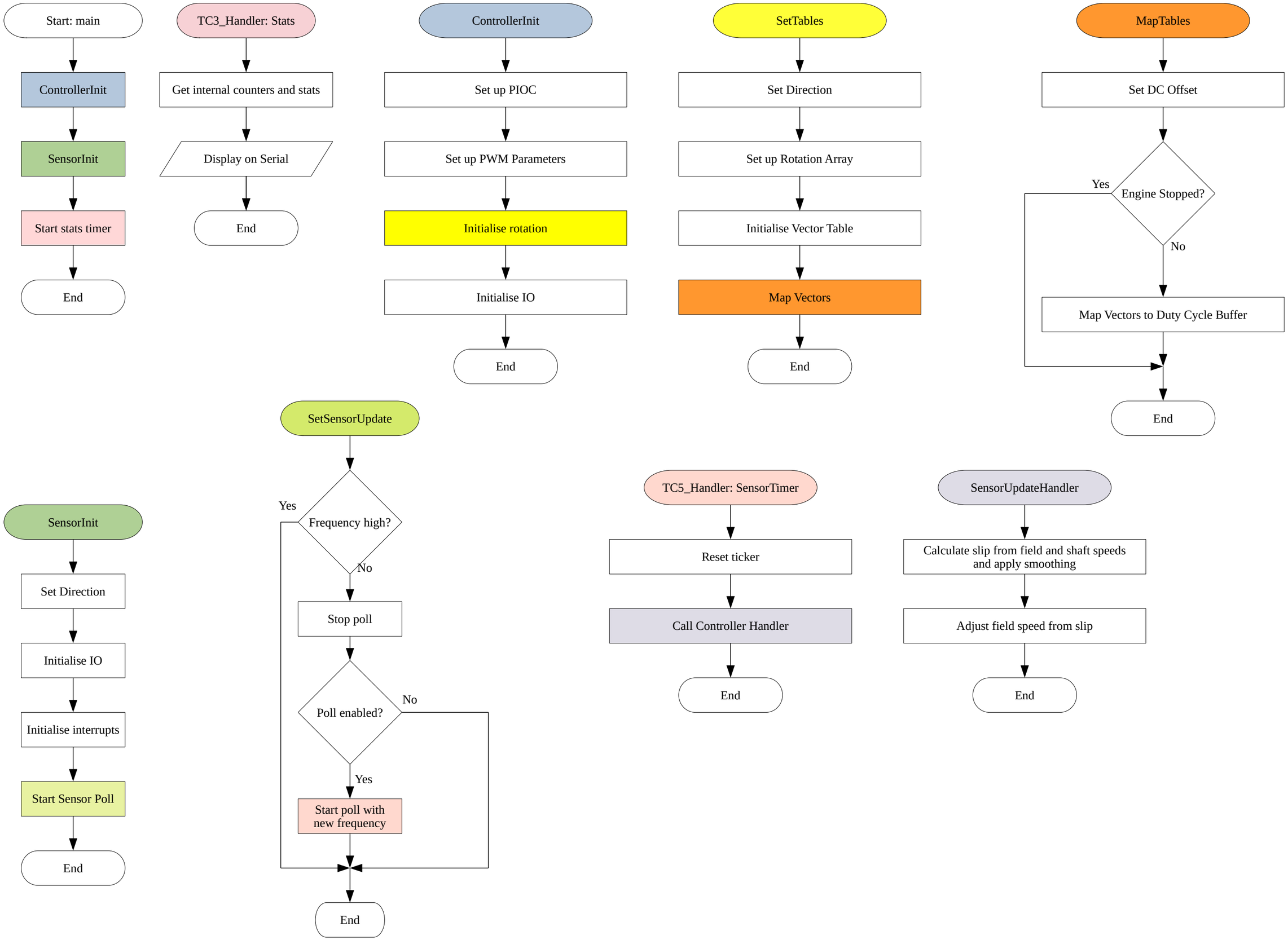
Start: main
ControllerInit
SensorInit
Start stats timer
End
TC3_Handler: Stats
Get internal counters and stats
Display on Serial
End
ControllerInit
Set up PIOC
Set up PWM Parameters
Initialise rotation
Initialise IO
End
SetTables
Set Direction
Set up Rotation Array
Initialise Vector Table
Map Vectors
End
MapTables
Set DC Offset
Engine Stopped?
Yes
No
Map Vectors to Duty Cycle Buffer
End
SensorInit
Set Direction
Initialise IO
Initialise interrupts
Start Sensor Poll
End
SetSensorUpdate
Frequency high?
Yes
No
Stop poll
Poll enabled?
No
Yes
Start poll with new frequency
End
TC5_Handler: SensorTimer
Reset ticker
Call Controller Handler
End
SensorUpdateHandler
Calculate slip from field and shaft speeds and apply smoothing
Adjust field speed from slip
End