|  |  |  |  |
| --- | --- | --- | --- |
| **StationID (photo)** | **Station Name (cross section)** | **Dsitrict** | **River Basin (Trend)** |
| 3907403 | Pasang Api | Hilir Perak | Sq.Perak |
| 5108401 | Sq.liok di Bekalan liok | Selama | Sq.Kerian |
| 5206432 | Sq.Krian di selama | Selama | Sq.Kerian |
| 5005405 | samagagah | kerian | Sq.Kurau |
| 4907422 | B14Batukurau | Lrut Matang | Sq.Kurau |
| 5007421 | Sq.kurau di pondok Tanjuna | Selama | Sq.Kurau |
| 5006401 | Kolam Air Bukit Merah | kerian | Sq.Perak |
| 5513401 | Tasik Temengor di Banding | Hulu perak | Sq.Perak |
| 4911445 | Sq.Plus di Kg lintang | kuala Kangsar | Sq.Perak |
| 4809443 | Sq.Perak di Jan Iskandar | kuala Kangsar | Sq.Perak |
| 4409401 | Sq.Perak di Parit | Perak tengah | Sq.Perak |
| 4310401 | Sq.Kinta di Tanjung Tualana | kinta | Sq.Perak |
| 4209493 | Sq.Perak di Teluk sena | Perak Tengah | Sq.Perak |
| 4109401 | Sq.Perak di kampong Gajah | Perak Tengah | Sq.Perak |
| 4611463 | Sq.Kinta di Tanjung Rambutan | kinta | Sq.Kinta/Sq.Perak |

**FLOOD MONITORING AND EARLY WARNING**

In most countries in the world, flood had caused damages to properties and it involved a large amount of loss to individuals and governments. During flood, it is important to have efficient flood response operation system to manage all activities among different related agencies

The two monitoring devices are composed of Ultrasonic sensor to measure the distance of the water level, Arduino micro-controller that process the signal from the sensor, GSM module to send the data or information from the micro-controller to the computer server and a power source using Solar Panel, Regulator and Batter

The ultimate aim is to build a water level detection using ultrasonic sensor to monitor the rivers in the south-east and south-west portion of the province of Isabela and develop a web and SMS application as an early warning system that provides essential information to the local communities and concern agencies

|  |  |  |  |
| --- | --- | --- | --- |
| **Last6 Update Time** | **River Level** | **(Graph)** | **Normal Level** |
| 6/8/2015 - 22:00 | 0.58 | 1 | |

|  |  |  |
| --- | --- | --- |
| 6/9/2015 - 23:00 | 33.24 | 29 |
| 6/10/2015 - 22:45 | 7.72 | 10 |
| 0:00 | -99.99 | 0 |
| 06/07/2017 - 23:00 | 23.77 | 23.5 |
| 06/07/2017 - 23:30 | 10.53 | 13 |
| 06/07/2017 - 23:00 | 8.25 | 8.68 |
| 06/07/2017 - 23:00 | 243.87 | 240 |
| 06/07/2017 - 23:00 | 52.54 | 52 |
| 06/07/2017 - 23:00 | 31.85 | 32 |
| 06/07/2017 - 23:00 | 17.68 | 18 |
| 06/07/2017 - 23:00 | 10.71 | 10 |
| 06/07/2017 - 23:30 | 8.93 | 8.5 |
| 06/07/2017 - 23:00 | 5.07 | 5 |
| 06/07/2017 - 23:00 | 64.29 | 65 |

|  |  |  |
| --- | --- | --- |
| **Alert Level** | **Warning Level** | **Danger Level** |
| 3 | 3.3 | 4 |
| 35 | 35.15 | 35.5 |
| 12 | 12.3 | 13 |
| 0 | 0 | 0 |
| 24 | 24.7 | 25.4 |
| 15 | 15.24 | 15.8 |
| 9 | 9.04 | 9.14 |
| 247 | 247.69 | 248.38 |
| 54 | 54.24 | 54.8 |
| 35 | 35.65 | 36.3 |
| 19 | 20.7 | 21.6 |
| 13 | 13.75 | 14.5 |
| 11 | 11.9 | 12.8 |
| 6.5 | 6.65 | 7 |
| 66.5 | 67.15 | 67.8 |