

# **BumpRecorder Web**

IRI data download (2017.12.18)

BumpRecorder Co., Ltd.



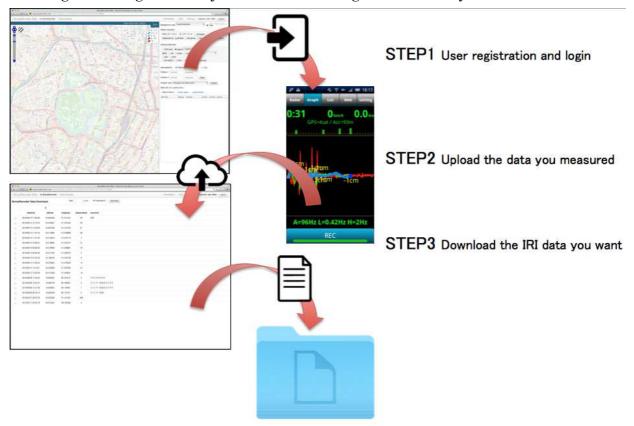
# **Contents**

1.	OUTLINE	
2.	IRI DATA DOWNLOAD PROCEDURE	2
	2-1. Access to BumpRecorder Web	
	2-2. ID registration	2
	2-3. Set your ID to smartphone application BumpRecorder	£
	2-4. Access to the Download page	5
	2-5. Select download data	4
	2-6. Data Download	4
	2-7. PayPal payment	É
	2-8. Re-download	<i>6</i>
3.	DATA DETAIL	6



## 1. OUTLINE

Using **BumpRecorder**, you can easily download IRI data for Mesh Size 8 that is about 90m segment length at Tokyo of latitude 36 degree. It cost is just 1 USD / km!



## **NOTES**

- User ID is required for data download. ID registration is free!
- Payment method is PayPal(online payment).
- Data is measured by the smartphone application **BumpRecorder**.
   You can download **BumpRecorder** from "Google Play" on the following URL link.
   <a href="https://play.google.com/store/apps/details?id=jp.traffichazard.BumpRecorder">https://play.google.com/store/apps/details?id=jp.traffichazard.BumpRecorder</a>
- When you want to use other segment length, or another indexes instead IRI, please don't hesitate to contact us.



## 2. IRI DATA DOWNLOAD PROCEDURE

# 2-1. Access to BumpRecorder Web

Using PC browser, visit following URL: <a href="http://www.map.bumprecorder.com/">http://www.map.bumprecorder.com/</a>



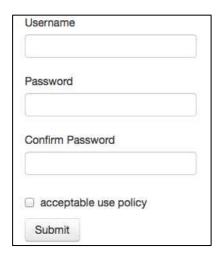
# 2-2. ID registration

If you still not have your ID, please resister your ID first.

On the upper right of **BumpRecorder Web**, there is "Get Free ID" button. Please press this button to open user registration page.



The user registration page has input form as follows.



"User name" is your account ID. When someone already use same name, you should use another one.

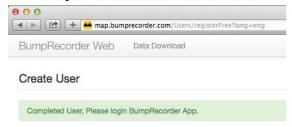
"Password" is required when accessing **BumpRecorder Web**.

"Confirm Password" is required to verify password.

When you read and agree for the Terms & Conditions, check "acceptable use policy" checkbox and press the "Submit" button



.If there is no problem with the entered contents, user registration is completed at this point.



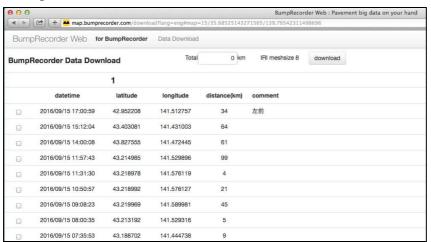
# 2-3. Set your ID to smartphone application BumpRecorder

Install **BumpRecorder** from "Play store" on the Android smartphone, After open application, select [Setting] tab, and tap the "ID setting", enter the your ID that - user name - and password which you registered previous step, and press the "Setting" button to login.

# 2-4. Access to the Download page

After recording and uploading data by using **BumpRecorder** App, please access **BumpRecorder Web** download page. <a href="http://map.bumprecorder.com/download">http://map.bumprecorder.com/download</a>

The uploaded data will be listed as below.



#### **NOTE**

• When you have not uploaded data yet, or you are not input your ID and password at BumpRecorder App, no data is listing.



### 2-5. Select download data

BumpRecorder Data Download			Total	0 km	IRI meshsize 8	download
		1				
	datetime	latitude	longitude	distance(km)	comment	
0	2016/09/15 17:00:59	42.952208	141.512757	34	左前	
0	2016/09/15 15:12:04	43.403081	141.431003	64		

<sup>&</sup>quot;datetime" is same as **BumpRecorder** App [List] tab. Data are listing in reverse order.

"distance(km)" is the driving distance that is calculated by GPS data. Usually, downloading IRI data is shorter than this distance, that is why some segment can not calculate IRI because too much slow or other reasons. of the measurement. "comment" that is your input comment on the [List] tab of **BumpRecorder** App.

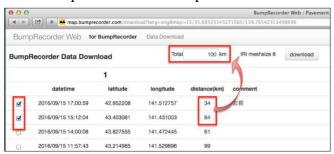
#### 2-6. Data Download

Find the download data, check the check box on the left side of the screen.

	datetime	latitude	longitude	distance(km)	comment
☑	2016/09/15 17:00:59	42.952208	141.512757	34	左前
	2016/09/15 15:12:04	43.403081	141.431003	64	

## **NOTE**

Multiple checks are also possible.



Total distance of the selected data are displayed at the top of the screen.



Click the "download" button at the top of the screen.

<sup>&</sup>quot;latitude" and "longitude" are the starting points location of measurement.





Confirmation dialog window will open. Distance is actual IRI distance which you can download. Please confirm and press "Pay" button to proceed to payment by PayPal.

Costs are 1 USD / km for each data files. First 1km is 1USD. Over distance is shorter than 100m, it is free. It is longer than 100m, it's cost is same as 1km.

Measured distance 0km~1.09km 1.1~2.09km 2.1km~3.09km 3.1km~4.09km ...

Accounting distance 1km 2km 3km 4km ...

# 2-7. PayPal payment



After confirmation of the amount, please proceed PayPal payment.

After payment, download process will start automatically.

#### **NOTE**

When you cancel payment process, it is return back to the data download page.



## 2-8. Re-download

After payment, the purchased data will shows "Purchased".

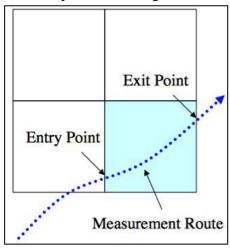


You can download purchased data again. Check and press "download" button, There is no deadline or number limit.

## 3. DATA DETAIL

From this function, providing IRI has segment length of "Mesh Size 8" of Square Mesh Segment.

## About Square Mesh Segment:



It is standard segment length of the **BumpRecorder**.

Square Mesh is defined by only using latitude and longitude, instead using road location markers.

For measurement route, a cross over section is used for IRI calculation.

In case of Tokyo at latitude 36 degrees, the length of one side is 88 m.

#### **NOTES**

- Depending on the Measurement Route, the segment length may differ greatly even in neighboring segments.
- For more detail information, please visit the following URL.



# http://www.bumprecorder.com/wp-content/uploads/2017/06/SquareMesh 170629 eng.pdf

8	-16040	245544		lon1 lat2	lon2 l	speed iri			
-		246544	-1.957627	30.096496	-1.957353	30.096679	36.6	3.17	11.6
8	-16040	246552	-1.957353	30.09668	-1.957019	30.097656	114.6	3.92	10.0
8	-16032	246552	-1.956205	30.097656	-1.956409	30.09668	110.7	8.32	3.7
8	-16032	246544	-1.956409	30.09668	-1.956651	30.096041	75.9	9.72	1.7
8	-16032	246536	-1.956651	30.095254	-1.955675	30.095608	115.3	6.31	2.2
8	-16024	246536	-1.955674	30.095608	-1.954699	30.09592	113.8	7.84	2.2
8	-16016	246544	-1.954699	30.09592	-1.953723	30.095775	109.6	6.31	4.8
8	-16008	246536	-1.953723	30.095775	-1.952747	30.095172	127.6	10.28	2.5
8	-16000	246536	-1.952747	30.095172	-1.952241	30.094727	74.9	13.76	1.2
8	-16000	246528	-1.95224	30.094726	-1.951771	30.09419	79.2	13.84	1.4
8	-15992	246520	-1.951771	30.09419	-1.950795	30.09355	130.8	12.09	2.4
8	-15984	246512	-1.950795	30.09355	-1.949819	30.092605	151.3	9.70	2.4
8	-15984	246512	-1.949819	30.092356	-1.950795	30.092392	108.5	7.20	3.9
8	-15992	246512	-1.950795	30.092392	-1.95177	30.092367	108.4	8.75	1.8
8	-16000	246512	-1.951771	30.092367	-1.952747	30.092334	108.5	8.61	2.2
8	-16000	246504	-1.952747	30.091563	-1.952128	30.09082	107.4	11.39	1.9
	888888888888888888888888888888888888888	8 -16032 8 -16032 8 -16032 8 -16024 8 -16088 8 -16008 8 -16000 8 -15992 8 -15984 8 -15992 8 -15992 8 -15992 8 -16000	8 -16032 246552 8 -16032 246536 8 -16032 246536 8 -16074 246536 8 -16016 246534 8 -16008 246536 8 -16000 246536 8 -16000 246538 8 -15992 246520 8 -15984 246512 8 -15984 246512 8 -15992 246512	8 -16032 246552 -1.956205 8 -16032 246534 -1.956609 8 -16032 246536 -1.956651 8 -16024 246536 -1.955674 8 -16016 246534 -1.954699 8 -16008 246536 -1.953723 8 -16000 246536 -1.952747 8 -16000 246528 -1.952747 8 -15992 246520 -1.951771 8 -15984 246512 -1.950795 8 -15984 246512 -1.950795 8 -15992 246512 -1.950795 8 -15992 246512 -1.950795 8 -15992 246512 -1.950795	8         -16032         246552         -1,956205         30,097656           8         -16032         246534         -1,956409         30,09668           8         -16032         246536         -1,956651         30,095254           8         -16012         246536         -1,9566574         30,095268           8         -16016         246534         -1,954699         30,095795           8         -16008         246536         -1,953723         30,095775           8         -16000         246536         -1,952747         30,095775           8         -16000         246528         -1,95274         30,094726           8         -15992         246520         -1,951771         30,094726           8         -15992         246512         -1,950795         30,09355           8         -15984         246512         -1,940819         30,092356           8         -15992         246512         -1,950795         30,092392           8         -16000         246512         -1,951771         30,092392           8         -16000         246512         -1,950795         30,092392           8         -16000         246512 <t< td=""><td>8         -16032         246552         -1.956205         30.097656         -1.956409           8         -16032         246534         -1.956651         30.09568         -1.955675           8         -16022         246536         -1.9556674         30.095254         -1.955675           8         -16012         246534         -1.954699         30.09508         -1.953679           8         -16016         246544         -1.954699         30.095775         -1.953723           8         -16008         246536         -1.952747         30.095775         -1.952747           8         -16000         246536         -1.952747         30.094726         -1.952747           8         -15992         246528         -1.952747         30.094726         -1.951771           8         -15992         246520         -1.951771         30.094726         -1.950795           8         -15984         246512         -1.950795         30.092356         -1.950795           8         -15984         246512         -1.950795         30.092356         -1.950775           8         -16000         2465512         -1.950797         30.092367         -1.952747</td><td>8         -16032         246552         -1,956205         30.097656         -1.956409         30.09668           8         -16032         246544         -1,956409         30.09668         -1.956651         30.095608           8         -16022         246536         -1,955674         30.095608         -1,954699         30.095608           8         -16016         246534         -1,954699         30.095608         -1,954699         30.095775           8         -16008         246536         -1,953723         30.095775         -1,952747         30.095172           8         -16000         246536         -1,952747         30.095172         -1,952241         30.094726         -1,951771         30.09419           8         -15992         246520         -1,951771         30.09419         -1,950795         30.09355           8         -15994         246512         -1,950795         30.09355         -1,950795         30.092605           8         -15984         246512         -1,94819         30.092392         -1,950795         30.092392           8         -15992         246512         -1,950795         30.092392         -1,95177         30.092367           8         -160000</td><td>8         -16032         246552         -1,956205         30.097656         -1,956409         30.09668         110.7           8         -16032         246544         -1,956409         30.09668         -1,956657         30.095608         115.3           8         -16022         246536         -1,956651         30.095608         -1,956675         30.095608         115.3           8         -16012         246536         -1,954699         30.09592         113.8         30.095775         109.6         30.095775         109.5         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         <t< td=""><td>8         -16832         246552         -1,956205         30.097656         -1,956409         30.09668         110.7         8.32           8         -16032         246544         -1,956691         30.09668         -1,956657         30.095608         115.3         6.31           8         -16022         246536         -1,955674         30.095608         -1,954699         30.09592         113.8         7.84           8         -16016         246536         -1,954699         30.095775         109.5         6.31           8         -16016         246544         -1,954699         30.095775         109.5         6.31           8         -16080         246536         -1,953723         30.095775         -1,952747         30.095775         109.5         6.31           8         -16000         246536         -1.952747         30.095172         -1.952747         30.094727         74.9         13.76           8         -16000         246528         -1.951771         30.094726         -1.951771         30.09419         79.2         13.84           8         -15992         246520         -1.950795         30.09495         30.09355         -1.948019         30.092355         -1.950795</td></t<></td></t<>	8         -16032         246552         -1.956205         30.097656         -1.956409           8         -16032         246534         -1.956651         30.09568         -1.955675           8         -16022         246536         -1.9556674         30.095254         -1.955675           8         -16012         246534         -1.954699         30.09508         -1.953679           8         -16016         246544         -1.954699         30.095775         -1.953723           8         -16008         246536         -1.952747         30.095775         -1.952747           8         -16000         246536         -1.952747         30.094726         -1.952747           8         -15992         246528         -1.952747         30.094726         -1.951771           8         -15992         246520         -1.951771         30.094726         -1.950795           8         -15984         246512         -1.950795         30.092356         -1.950795           8         -15984         246512         -1.950795         30.092356         -1.950775           8         -16000         2465512         -1.950797         30.092367         -1.952747	8         -16032         246552         -1,956205         30.097656         -1.956409         30.09668           8         -16032         246544         -1,956409         30.09668         -1.956651         30.095608           8         -16022         246536         -1,955674         30.095608         -1,954699         30.095608           8         -16016         246534         -1,954699         30.095608         -1,954699         30.095775           8         -16008         246536         -1,953723         30.095775         -1,952747         30.095172           8         -16000         246536         -1,952747         30.095172         -1,952241         30.094726         -1,951771         30.09419           8         -15992         246520         -1,951771         30.09419         -1,950795         30.09355           8         -15994         246512         -1,950795         30.09355         -1,950795         30.092605           8         -15984         246512         -1,94819         30.092392         -1,950795         30.092392           8         -15992         246512         -1,950795         30.092392         -1,95177         30.092367           8         -160000	8         -16032         246552         -1,956205         30.097656         -1,956409         30.09668         110.7           8         -16032         246544         -1,956409         30.09668         -1,956657         30.095608         115.3           8         -16022         246536         -1,956651         30.095608         -1,956675         30.095608         115.3           8         -16012         246536         -1,954699         30.09592         113.8         30.095775         109.6         30.095775         109.5         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775         109.6         30.095775 <t< td=""><td>8         -16832         246552         -1,956205         30.097656         -1,956409         30.09668         110.7         8.32           8         -16032         246544         -1,956691         30.09668         -1,956657         30.095608         115.3         6.31           8         -16022         246536         -1,955674         30.095608         -1,954699         30.09592         113.8         7.84           8         -16016         246536         -1,954699         30.095775         109.5         6.31           8         -16016         246544         -1,954699         30.095775         109.5         6.31           8         -16080         246536         -1,953723         30.095775         -1,952747         30.095775         109.5         6.31           8         -16000         246536         -1.952747         30.095172         -1.952747         30.094727         74.9         13.76           8         -16000         246528         -1.951771         30.094726         -1.951771         30.09419         79.2         13.84           8         -15992         246520         -1.950795         30.09495         30.09355         -1.948019         30.092355         -1.950795</td></t<>	8         -16832         246552         -1,956205         30.097656         -1,956409         30.09668         110.7         8.32           8         -16032         246544         -1,956691         30.09668         -1,956657         30.095608         115.3         6.31           8         -16022         246536         -1,955674         30.095608         -1,954699         30.09592         113.8         7.84           8         -16016         246536         -1,954699         30.095775         109.5         6.31           8         -16016         246544         -1,954699         30.095775         109.5         6.31           8         -16080         246536         -1,953723         30.095775         -1,952747         30.095775         109.5         6.31           8         -16000         246536         -1.952747         30.095172         -1.952747         30.094727         74.9         13.76           8         -16000         246528         -1.951771         30.094726         -1.951771         30.09419         79.2         13.84           8         -15992         246520         -1.950795         30.09495         30.09355         -1.948019         30.092355         -1.950795

datetime	Date and time when the data was measured				
devicetime	Time indicated by OS UTC [ms]				
meshsize	Mesh size	Mesh Size 8			
latcode	Latitude				
loncode	Longitude	Square Mesh			
lat1	Latitude on the origin side of the IRI calculation section				
lon1	Longitude on the origin side of the IRI calculation section				
lat2	Latitude on the end side of the IRI calculation section				
lon2	Longitude on the end side of the IRI calculation section				
1	Section length [m]				
speed	Average velocity in section [m/s]				
iri	IRI[mm/m]				

## Contact address

BumpRecorder Co., Ltd.

1-59-6 Wako-akabane 102, Akabane, Kita-ku, Tokyo, 115-0045, Japan

TEL: +81-3-6454-4255 FAX: +81-3-6369-4618

URL: http://www.bumprecorder.com