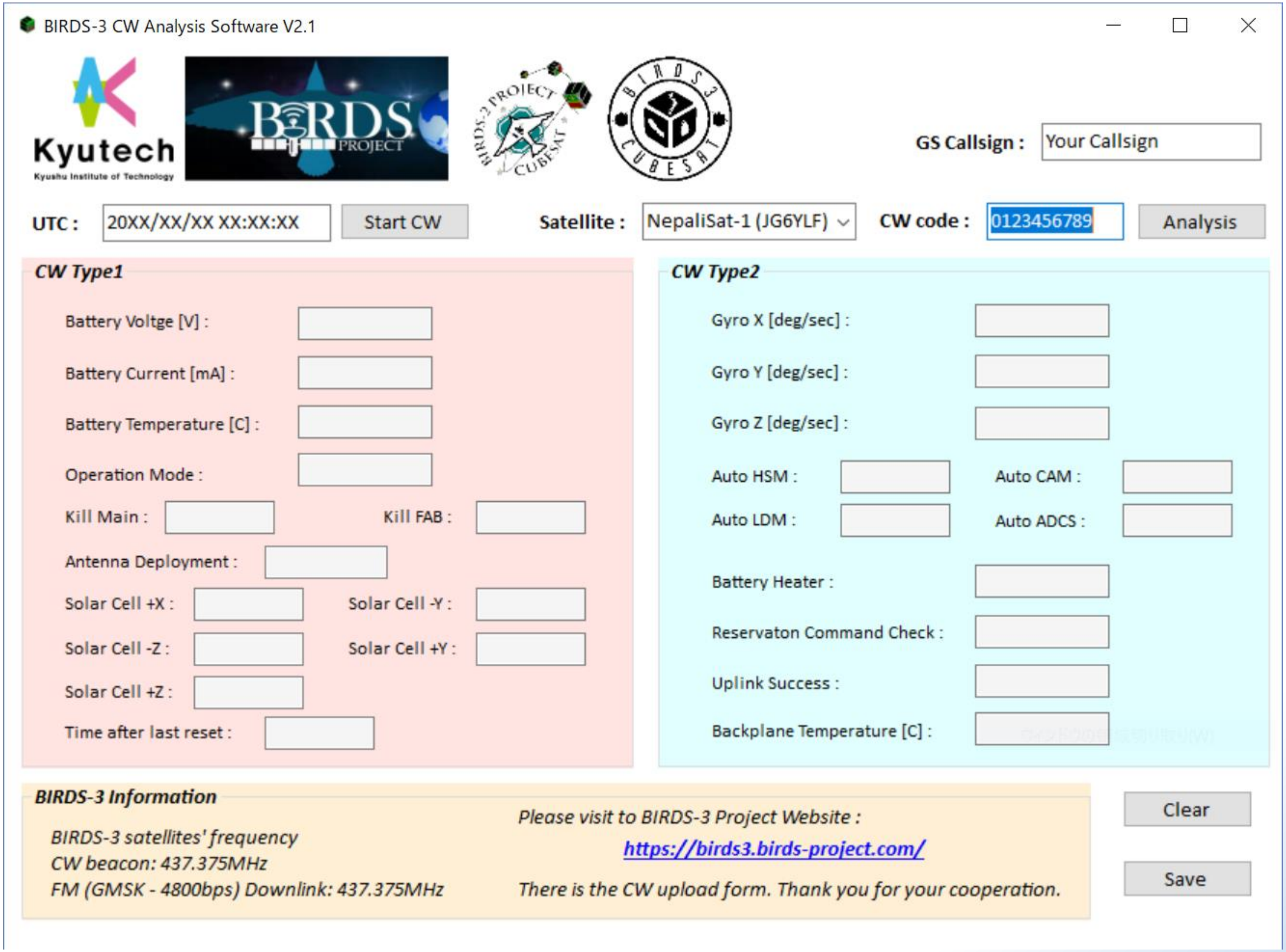
BIRDS-3 CW Analysis Software

Manual

17 June, 2019

Makiko Kishimoto from BIRDS-3 member

CW analysis software


BIRDS-3 CW Analysis Software V2.1
Kyutech
Kyushu Institute of Technology
BIRDS PROJECT
BIRDS-2 PROJECT CUBESAT
BIRDS 3 CUBESAT
Start CW
Analysis
Clear
Save

GS Callsign : Your Callsign

UTC : 20XX/XX/XX XX:XX:XX

Satellite : NepaliSat-1 (JG6YLF)

CW code : 0123456789

CW Type1

Battery Voltge [V] :

Battery Current [mA] :

Battery Temperature [C] :

Operation Mode :

Kill Main :

Kill FAB :

Antenna Deployment :

Solar Cell +X :

Solar Cell -Y :

Solar Cell -Z :

Solar Cell +Y :

Solar Cell +Z :

Time after last reset :

CW Type2

Gyro X [deg/sec] :

Gyro Y [deg/sec] :

Gyro Z [deg/sec] :

Auto HSM :

Auto CAM :

Auto LDM :

Auto ADCS :

Battery Heater :

Reservaton Command Check :

Uplink Success :

Backplane Temperature [C] :

BIRDS-3 Information

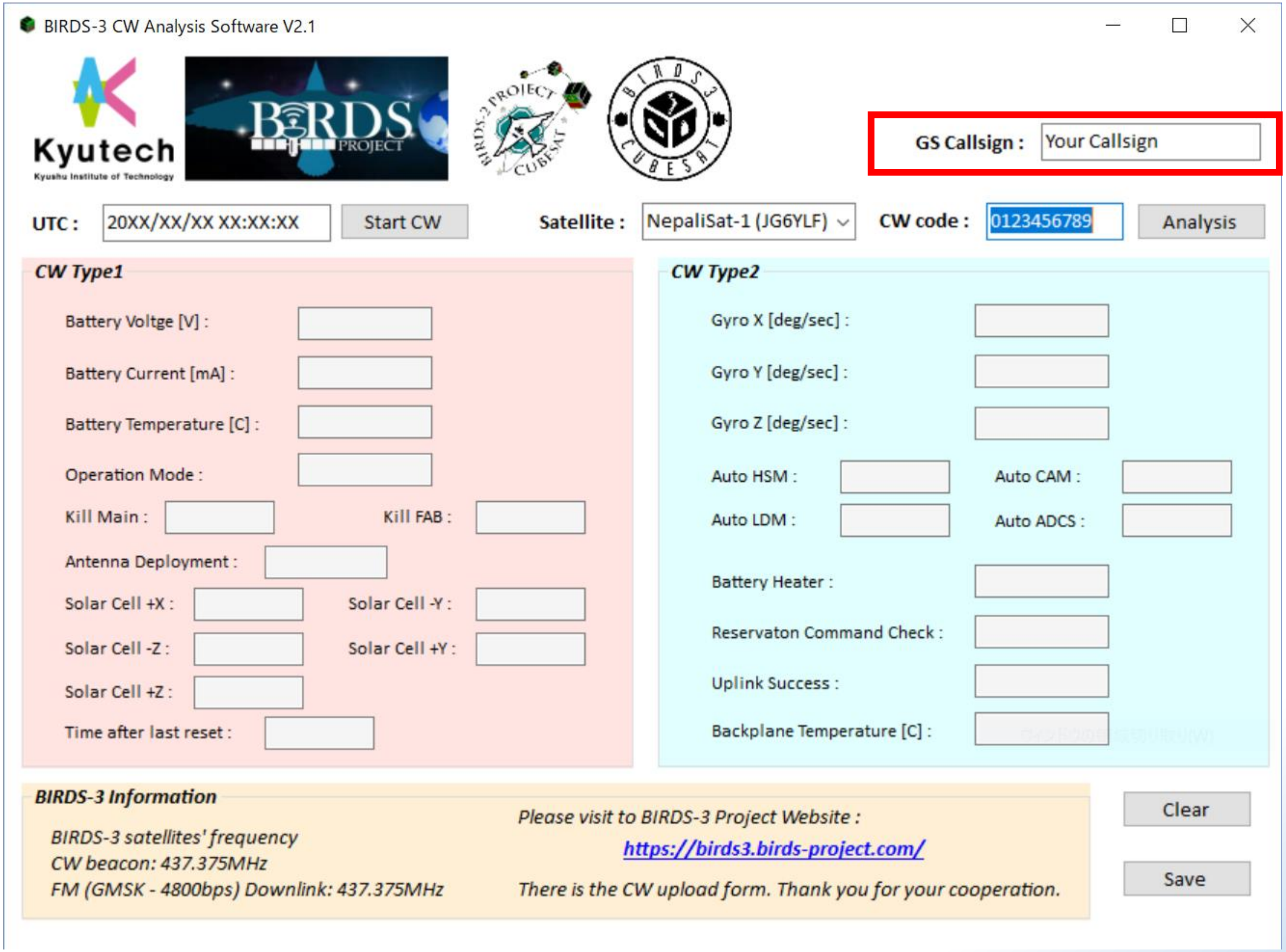
BIRDS-3 satellites' frequency
CW beacon: 437.375MHz
FM (GMSK - 4800bps) Downlink: 437.375MHz

Please visit to BIRDS-3 Project Website :

https://birds3.birds-project.com/

There is the CW upload form. Thank you for your cooperation.

Put your GS Callsign



BIRDS-3 CW Analysis Software V2.1

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Uplink Success :
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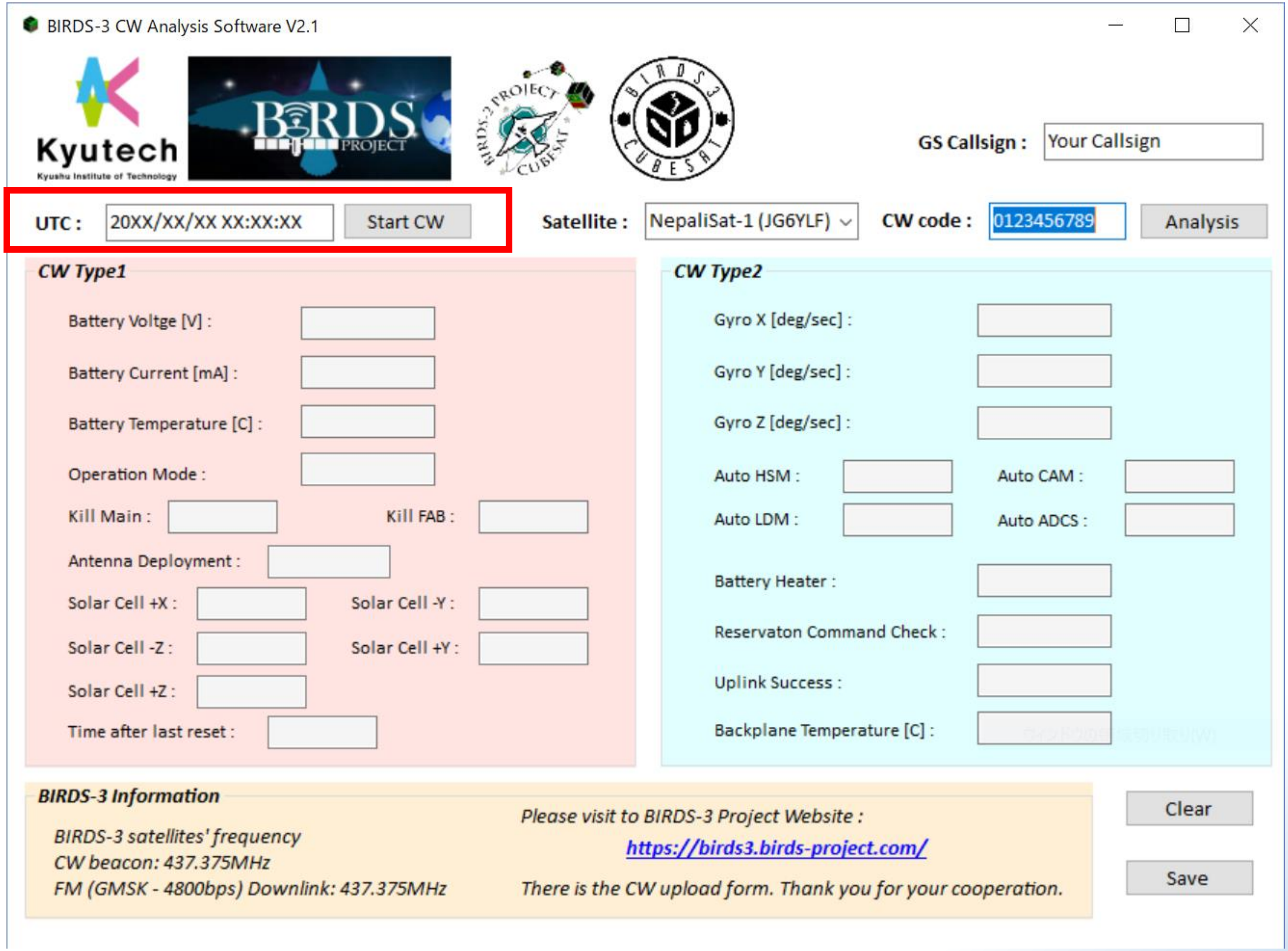
There is the CW upload form. Thank you for your cooperation.

Please Click when CW start


BIRDS-3 CW Analysis Software V2.1
Kyutech
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BIRDS PROJECT
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BIRDS-3 Information

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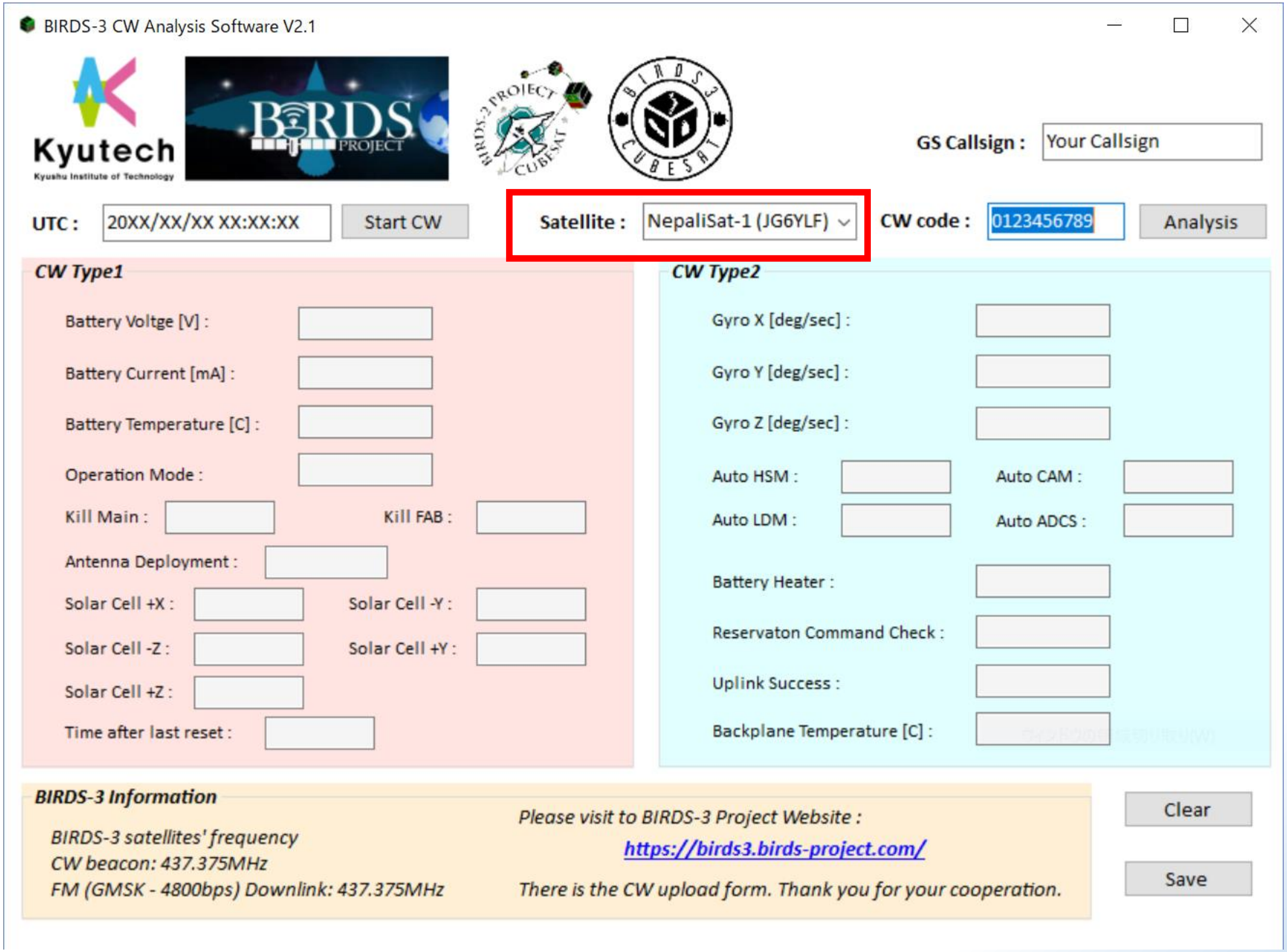
There is the CW upload form. Thank you for your cooperation.

Select the satellite



BIRDS-3 CW Analysis Software V2.1

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BIRDS-3 CUBESAT

GS Callsign : Your Callsign

UTC : 20XX/XX/XX XX:XX:XX

Start CW

Satellite : NepaliSat-1 (JG6YLF)

CW code : 0123456789

Analysis

CW Type1

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Battery Current [mA] :

Battery Temperature [C] :

Operation Mode :

Kill Main :

Kill FAB :

Antenna Deployment :

Solar Cell +X :

Solar Cell -Y :

Solar Cell -Z :

Solar Cell +Y :

Solar Cell +Z :

Time after last reset :

CW Type2

Gyro X [deg/sec] :

Gyro Y [deg/sec] :

Gyro Z [deg/sec] :

Auto HSM :

Auto CAM :

Auto LDM :

Auto ADCS :

Battery Heater :

Reservaton Command Check :

Uplink Success :

Backplane Temperature [C] :

BIRDS-3 Information

BIRDS-3 satellites' frequency
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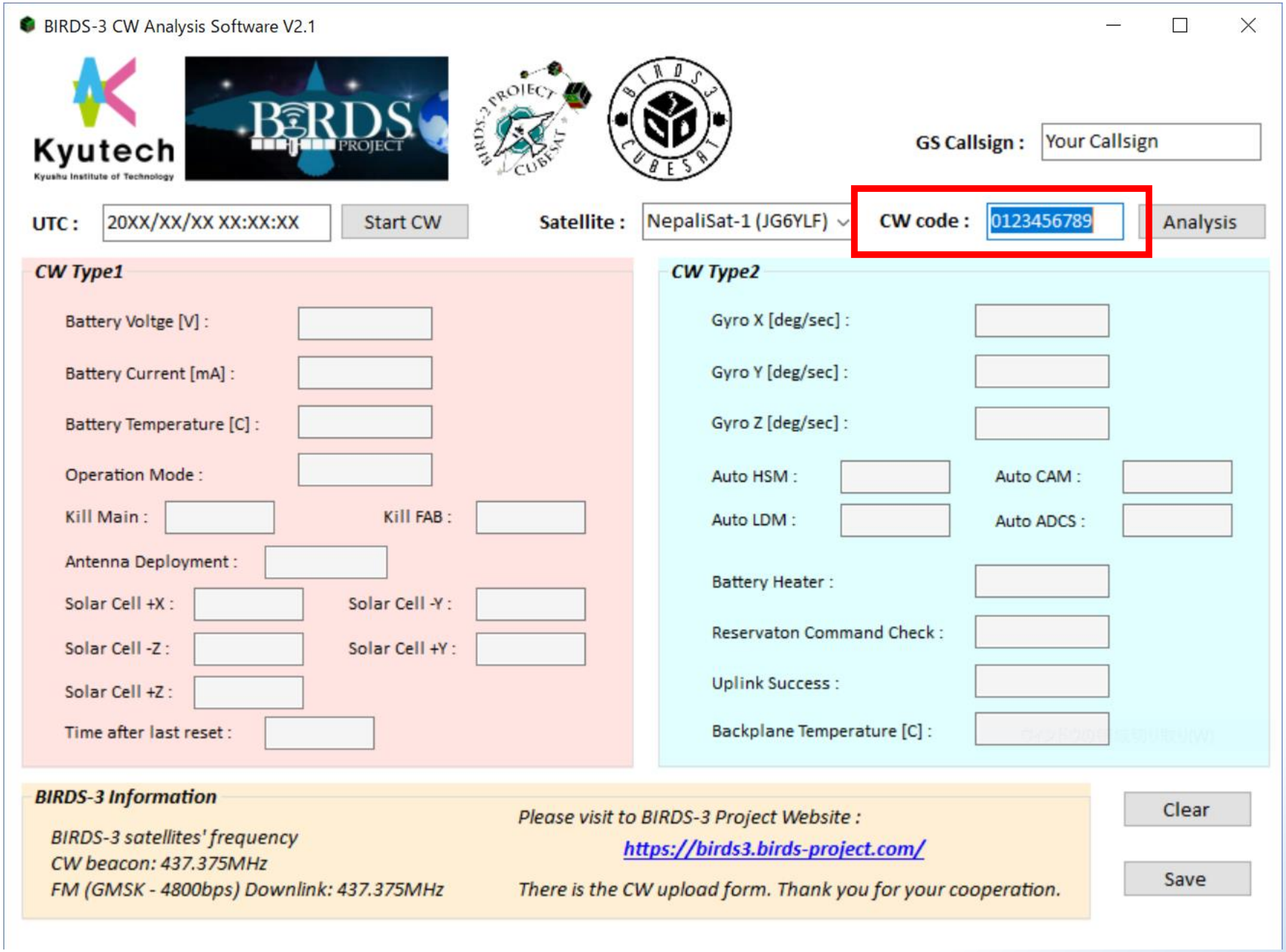
Put the CW HK data



BIRDS-3 CW Analysis Software V2.1

GS Callsign : Your Callsign

UTC : 20XX/XX/XX XX:XX:XX

Satellite : NepaliSat-1 (JG6YLF)

CW code : 0123456789

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BIRDS-2 PROJECT CUBESAT
BIRDS 3 CUBESAT
Start CW
Analysis
CW Type1
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Auto CAM :
Auto LDM :
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Reservaton Command Check :
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Backplane Temperature [C] :
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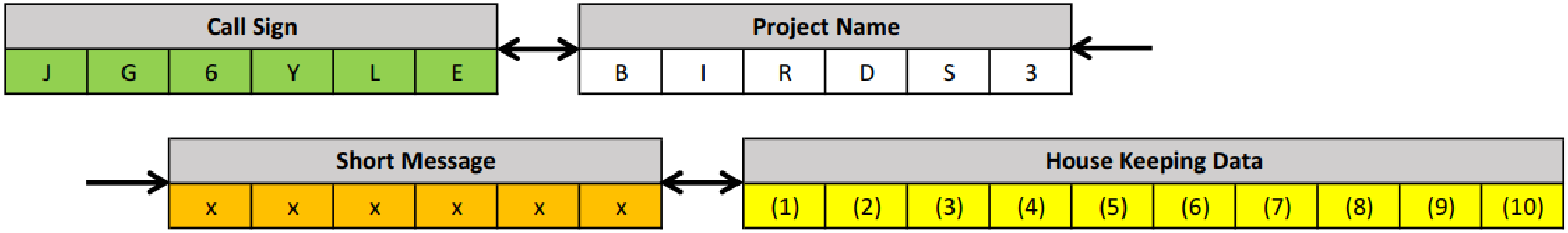
CW HK data



Call Sign					
J	G	6	Y	L	E

Project Name					
B	I	R	D	S	3

Short Message					
x	x	x	x	x	x

House Keeping Data									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

Call Sign

Uguisu (Japan):	JG6YLE
NepaliSat-1 (Nepal):	JG6YLF
Raavana-1 (Sri Lanka):	JG6YLG

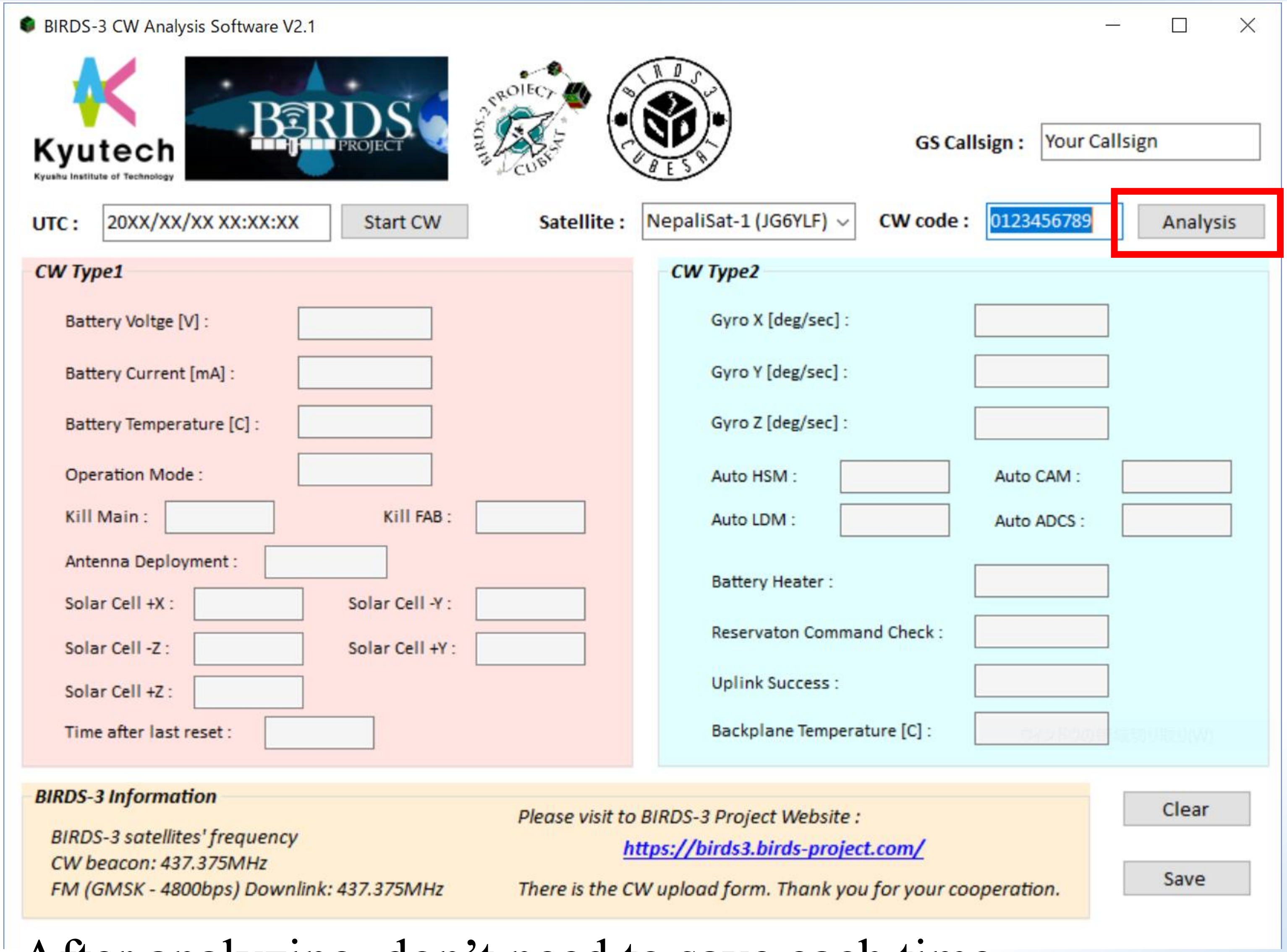
Short Message

BIRDS-3 will send short message to satellites which is from Amateur radio community or organization whose GS has callsign.

House Keeping Data

There are 5 bytes (40 bits) data and it shows satellite’s health condition.

Click "Analysis"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Solar Cell -Y :
Solar Cell -Z :
Solar Cell +Y :
Solar Cell +Z :
Time after last reset :

CW Type2

Gyro X [deg/sec] :
Gyro Y [deg/sec] :
Gyro Z [deg/sec] :
Auto HSM :
Auto CAM :
Auto LDM :
Auto ADCS :
Battery Heater :
Reservaton Command Check :
Uplink Success :
Backplane Temperature [C] :

BIRDS-3 Information

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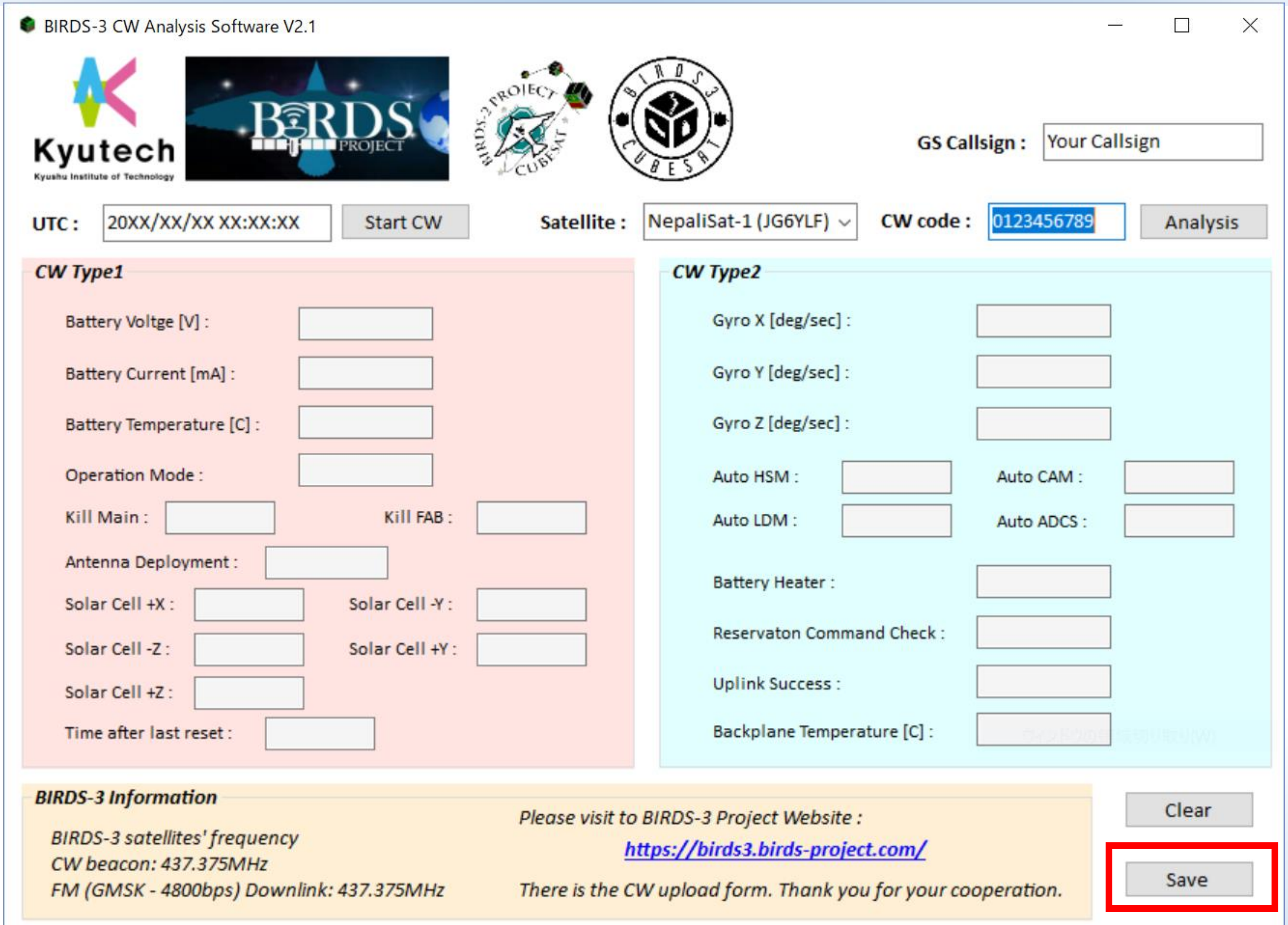
There is the CW upload form. Thank you for your cooperation.

After analyzing, don't need to save each time.

When finished operation..



BIRDS-3 CW Analysis Software V2.1

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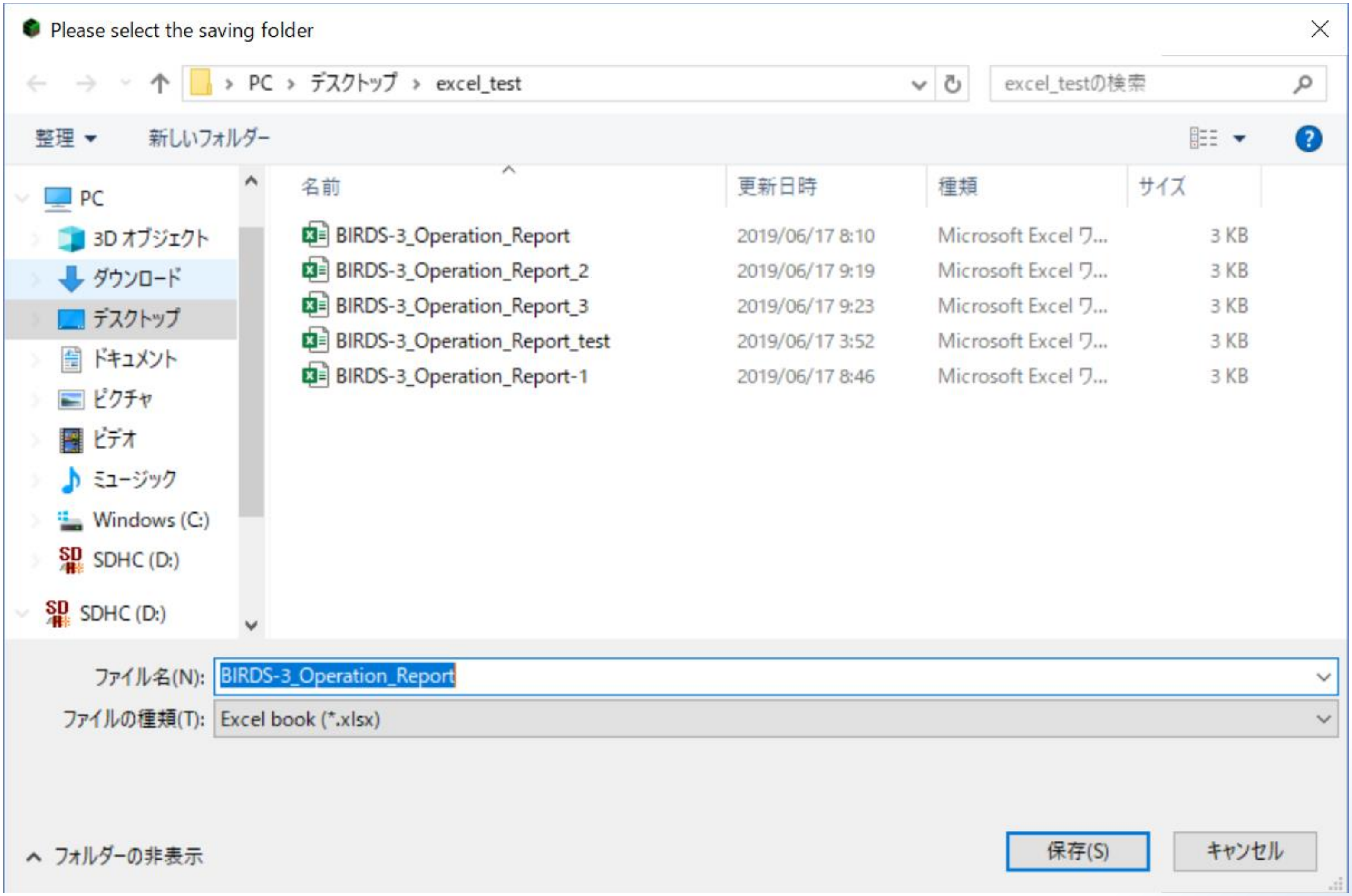
BIRDS-2 PROJECT CUBESAT
BIRDS3 CUBESAT
Start CW
Analysis
Clear
Save

Please “save” Excel file from here.

After Click “Save”



Please select the saving folder

PC › デスクトップ › excel_test

名前	更新日時	種類	サイズ
BIRDS-3_Operation_Report	2019/06/17 8:10	Microsoft Excel ワ...	3 KB
BIRDS-3_Operation_Report_2	2019/06/17 9:19	Microsoft Excel ワ...	3 KB
BIRDS-3_Operation_Report_3	2019/06/17 9:23	Microsoft Excel ワ...	3 KB
BIRDS-3_Operation_Report_test	2019/06/17 3:52	Microsoft Excel ワ...	3 KB
BIRDS-3_Operation_Report-1	2019/06/17 8:46	Microsoft Excel ワ...	3 KB

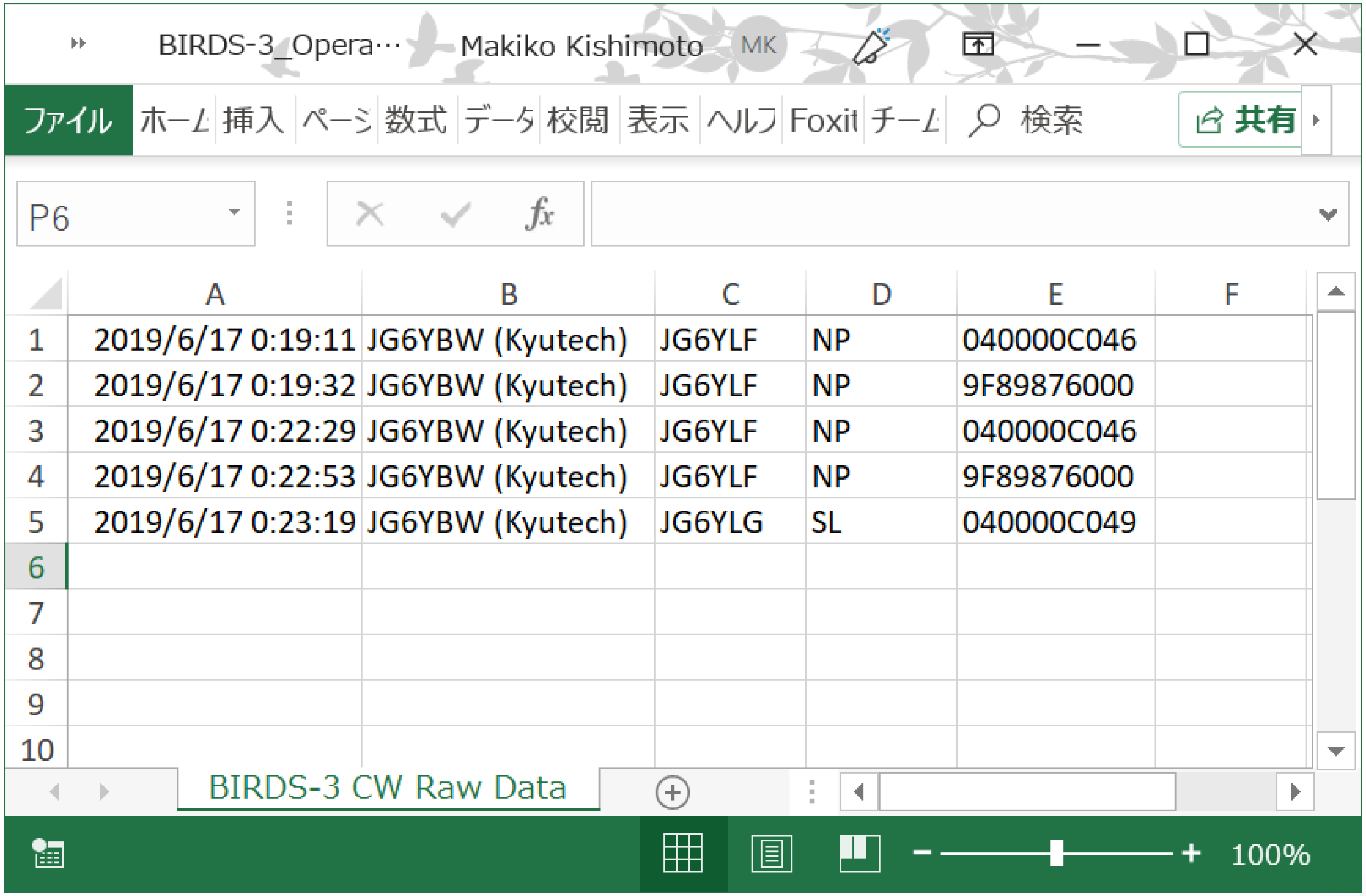
ファイル名(N): BIRDS-3_Operation_Report

ファイルの種類(T): Excel book (*.xlsx)

excel_testの検索
整理
新しいフォルダー
PC
3D オブジェクト
ダウンロード
デスクトップ
ドキュメント
ピクチャ
ビデオ
ミュージック
Windows (C:)
SDHC (D:)
SDHC (D:)
フォルダーの非表示
保存(S)
キャンセル

Please decide file name, and Save to any folder.

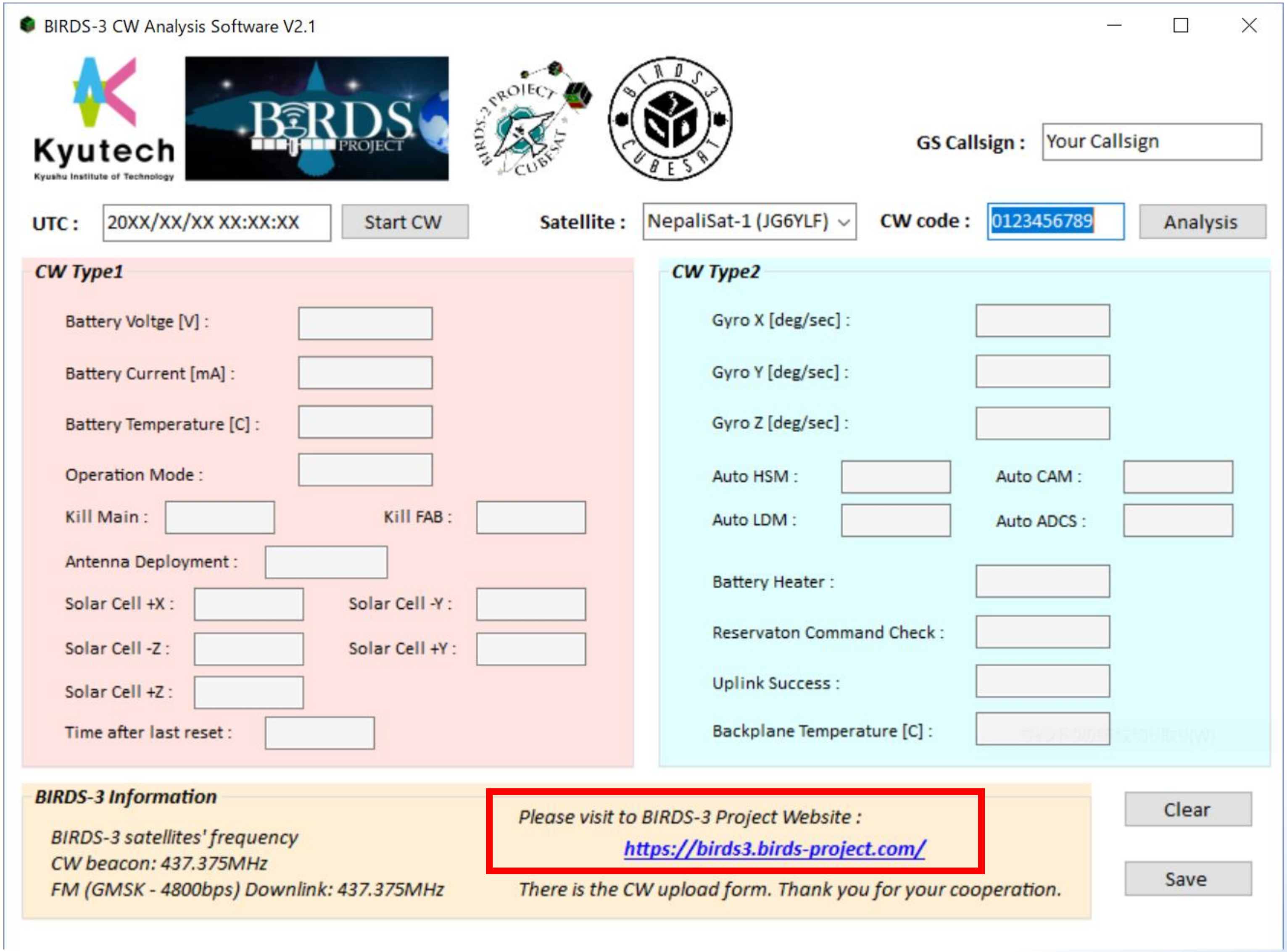
Saved Excel file


BIRDS-3_Opera…
Makiko Kishimoto
MK
ファイル
ホーム
挿入
ページ
数式
データ
校閲
表示
ヘルプ
Foxit
チーム
検索
共有
P6
fx
BIRDS-3 CW Raw Data
100%

	A	B	C	D	E	F
1	2019/6/17 0:19:11	JG6YBW (Kyutech)	JG6YLF	NP	040000C046	
2	2019/6/17 0:19:32	JG6YBW (Kyutech)	JG6YLF	NP	9F89876000	
3	2019/6/17 0:22:29	JG6YBW (Kyutech)	JG6YLF	NP	040000C046	
4	2019/6/17 0:22:53	JG6YBW (Kyutech)	JG6YLF	NP	9F89876000	
5	2019/6/17 0:23:19	JG6YBW (Kyutech)	JG6YLG	SL	040000C049	
6						
7						
8						
9						
10						

There are data (UTC data and time, Satellite Callsign, satellite country, GS Callsign, Raw Data).

Please go to BIRDS-3 Website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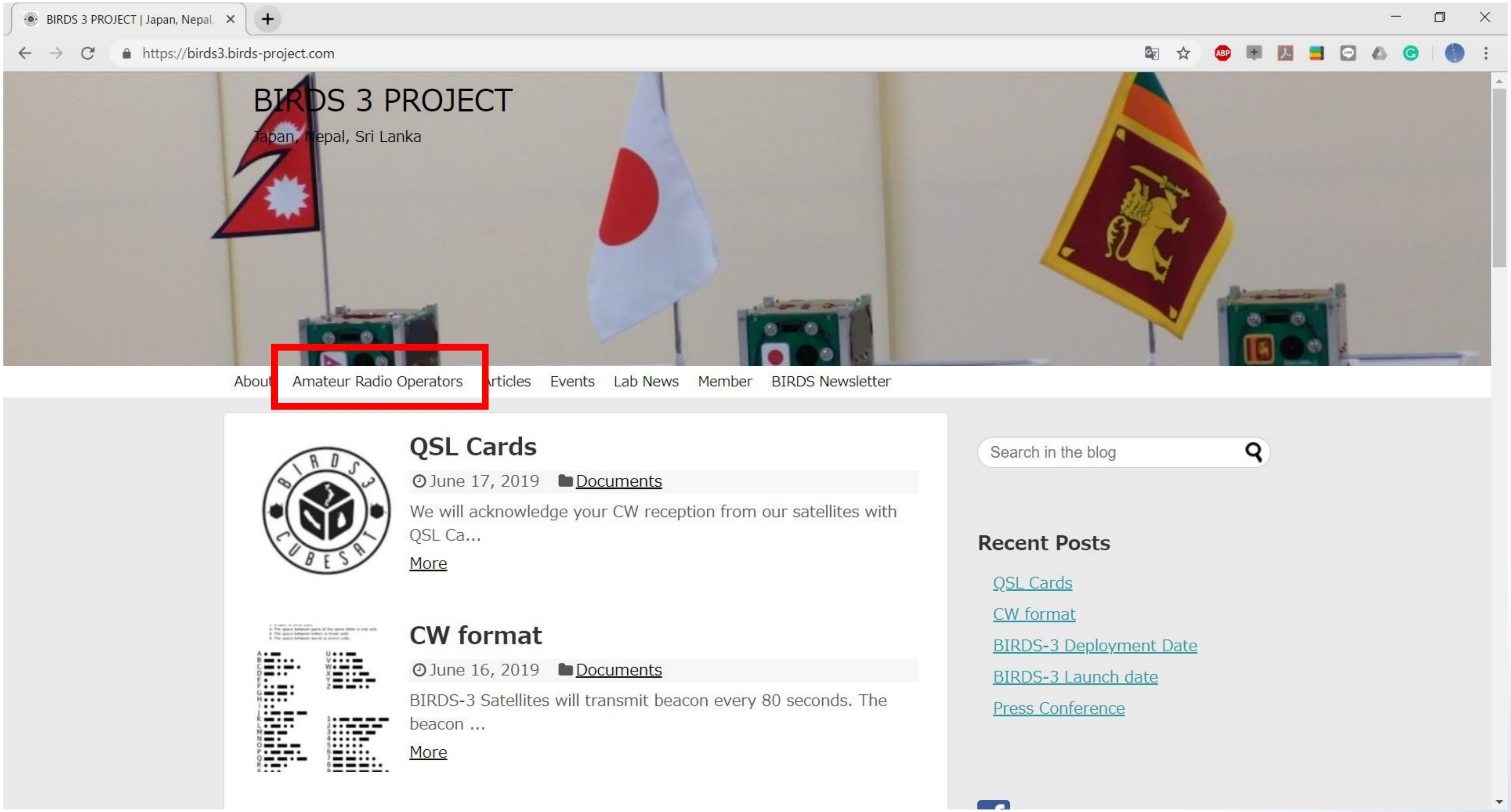
Home of Website



BIRDS 3 PROJECT | Japan, Nepal,

https://birds3.birds-project.com

BIRDS 3 PROJECT

Japan, Nepal, Sri Lanka

About | Amateur Radio Operators | rticles | Events | Lab News | Member | BIRDS Newsletter

QSL Cards

June 17, 2019 Documents

We will acknowledge your CW reception from our satellites with QSL Ca…

More

CW format

June 16, 2019 Documents

BIRDS-3 Satellites will transmit beacon every 80 seconds. The beacon …

More

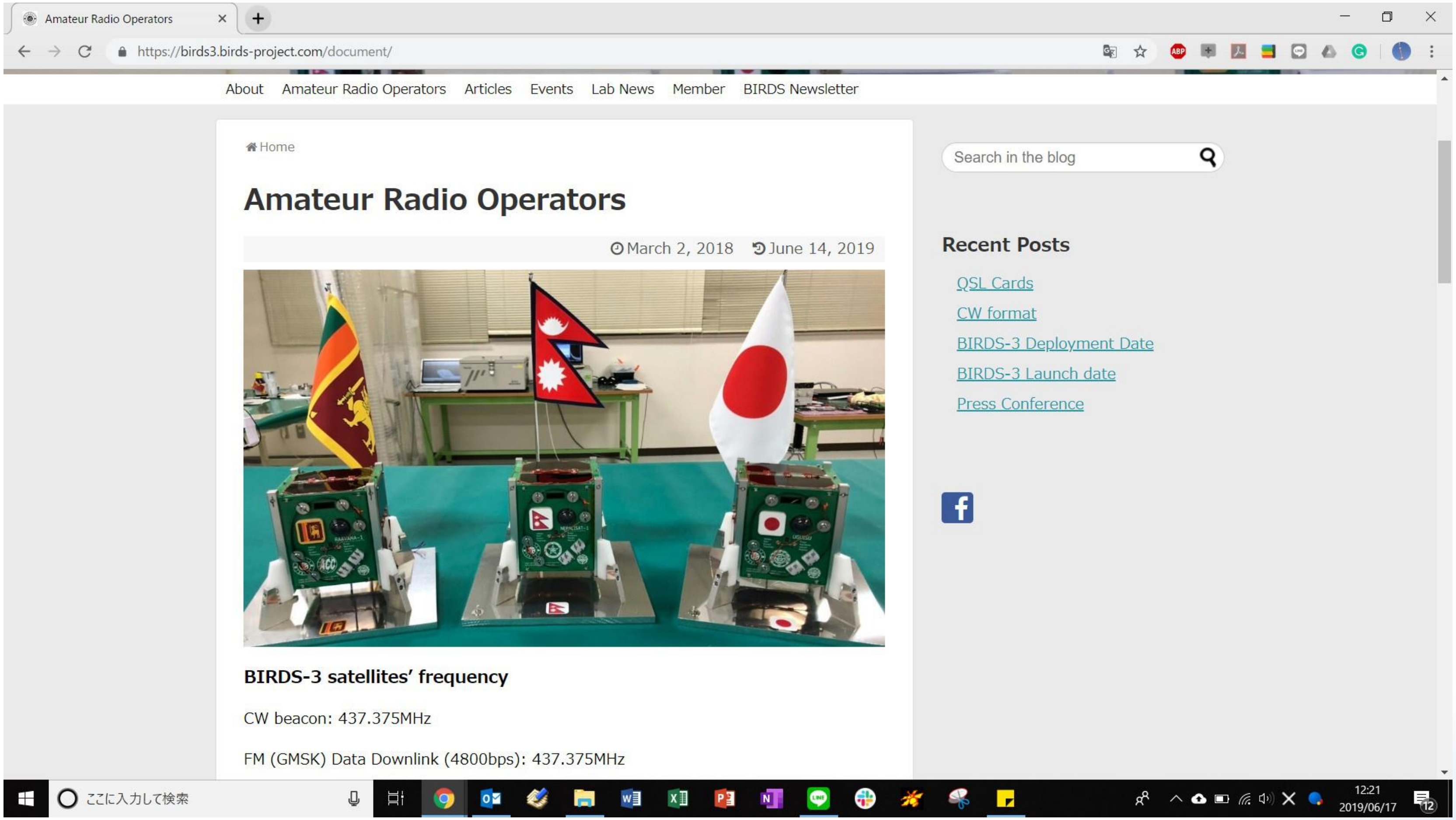
Search in the blog

Recent Posts

- QSL Cards
- CW format
- BIRDS-3 Deployment Date
- BIRDS-3 Launch date
- Press Conference

There are information about frequency and operation.

Amateur Radio Operators



Amateur Radio Operators
https://birds3.birds-project.com/document/
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Search in the blog
ここに入力して検索
12:21
2019/06/17

Amateur Radio Operators

March 2, 2018 June 14, 2019

BIRDS-3 satellites' frequency

CW beacon: 437.375MHz

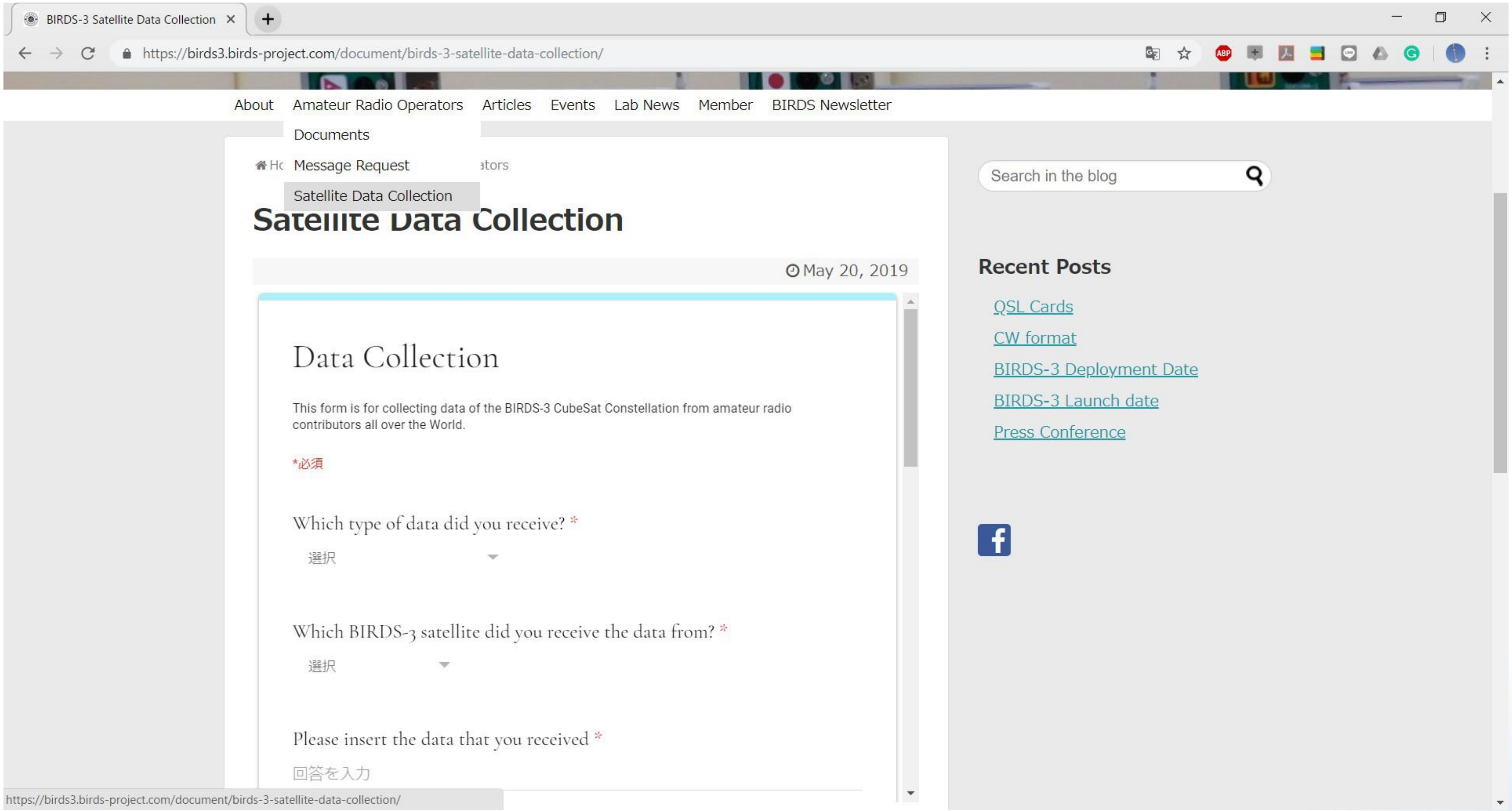
FM (GMSK) Data Downlink (4800bps): 437.375MHz

Recent Posts

- QSL Cards
- CW format
- BIRDS-3 Deployment Date
- BIRDS-3 Launch date
- Press Conference

We will upload information about satellites after antenna deployment. There are information about CW format, CW timing, CW frequency and Downlink frequency.

Satellite Data Collection


BIRDS-3 Satellite Data Collection
https://birds3.birds-project.com/document/birds-3-satellite-data-collection/
About
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BIRDS Newsletter
Documents
Message Request
Satellite Data Collection
Search in the blog
https://birds3.birds-project.com/document/birds-3-satellite-data-collection/

Satellite Data Collection

May 20, 2019

Data Collection

This form is for collecting data of the BIRDS-3 CubeSat Constellation from amateur radio contributors all over the World.

*必須

Which type of data did you receive? *
選択

Which BIRDS-3 satellite did you receive the data from? *
選択

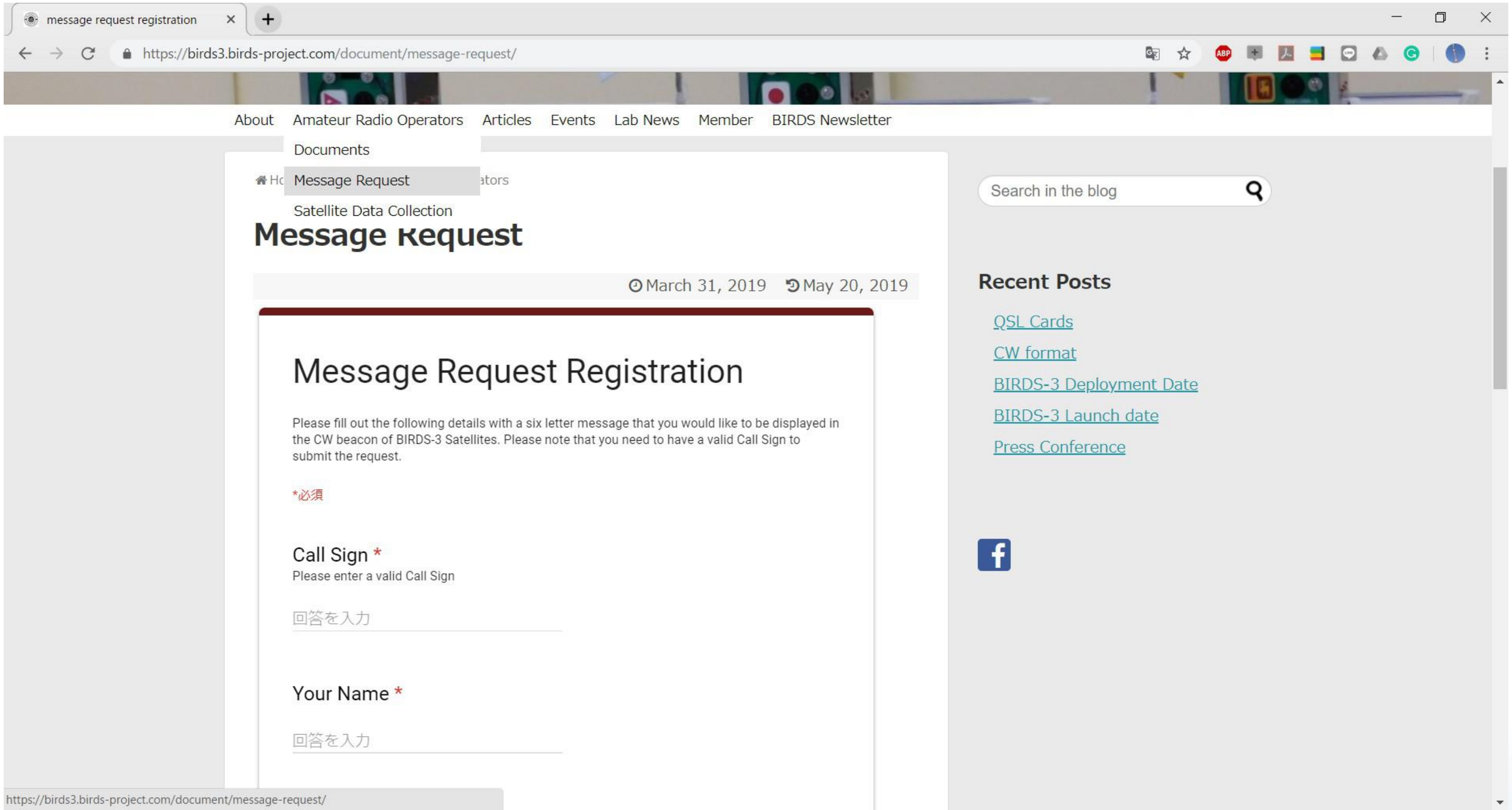
Please insert the data that you received *
回答を入力

Recent Posts

- QSL Cards
- CW format
- BIRDS-3 Deployment Date
- BIRDS-3 Launch date
- Press Conference

This is the form to update received CW data. We will acknowledge your CW reception from our satellites with QSL cards.
https://birds3.birds-project.com/2019/06/17/qsl-cards/

Message Request


message request registration
https://birds3.birds-project.com/document/message-request/
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BIRDS-3 Launch date
Press Conference
https://birds3.birds-project.com/document/message-request/

Message Request

March 31, 2019 May 20, 2019

Message Request Registration

Please fill out the following details with a six letter message that you would like to be displayed in the CW beacon of BIRDS-3 Satellites. Please note that you need to have a valid Call Sign to submit the request.

*必須

Call Sign *
Please enter a valid Call Sign
回答を入力

Your Name *
回答を入力

One of BIRDS-3 mission is Sending Short Message from BIRDS-3 satellites, which is from Amateur radio community or organization whose GS has callsign. Please apply your short message to BIRDS-3. It will may be heard from BIRDS-3 satellites!!