Analyse Minimax Ailerons Boris Neveu

Voici mon analyse des données que l'on m'a fourni.
Dans un premier temps je les ai traitées selon un processus que je ne montre pas ici.
Cette première étape m'a permis de confirmer que le Minimax avait bien été monté de travers sur le bateau, tourné de 90 degrés vers le côté, de sorte qu'il croyait se déplacer en crabe.
Mais j'ai pu récuperer cela au prix d'un changement de repère, les données sont donc malgré tout utilisable à 100% avec mes traitements.

Par soucis de neutralité, je n'ai pas demandé de détails au sujet des séries.
Je sais juste que nous avons 4 configurations différentes, avec pour chacune 3 essais.
Nous avons aussi un 13eme essai à la fin, que je n'ai pas analysé.
Dans la suite de l'étude, je parlerais donc des essais en les appelant par leur numéro (De 1 à 3, de 4 à 6, etc...)
Les essais similaires correspondant à chque configuration sont regroupés sous une même couleur :

- 1 à 3 en rouge
- 4 à 6 en vert
- 7 à 9 en cyan
- 10 à 12 en violet

Ce document s'appuie sur l'étude de 12 paramètres dynamiques du bateau.
Ces 12 paramètres dynamiques sont les vitesses et accélérations linéaires et angulaires du bateau selon les 3 axes :

- Vitesse vers l'avant : Forward Velocity
- Vitesse vers la droite : Right Velocity
- Vitesse vers le haut : Up Velocity
- Accélération vers l'avant : Forward Acceleration
- Accélération vers la droite : Right Acceleration
- Accélération vers le haut : Up Acceleration
- Vitesse de tangage : Pitch Angular Velocity
- Vitesse de lacet : Yaw Angular Velocity
- Vitesse de roulis : Roll Angular Velocity
- Accélération de tangage : Pitch Angular Acceleration
- Accélération de lacet : Yaw Angular Acceleration
- Accélération de roulis : Roll Angular Acceleration

Ce document présente 5 parties, avec pour chacune une brève explication de ce que l'on peut en tirer, ou pas.

Pour conclure sur les aspects généraux, je peux dire que l'étude montre quelques différences selon les configurations, mais pas de différence statistiquement significative.
En effet, le nombre d'essais permet un taux de certitude de l'ordre de 40%, ce qui est insuffisant pour pouvoir affirmer des certitudes.

Mais certaines variations subtiles sont peut être la marque des quelques influences à étudier.
En particulier, il semble y avoir une influence faible, mais visible, au niveau du dérapage du bateau à certains moments dans le cycle du coup de pagaie, à voir dans la partie "High frequency pair correlations".

Bonne lecture !

Data Import

On importe les données importées et traitées par mon logiciel d'analyse.

In[109]:=
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<< "/Volumes/MacBookHD/Users/Vincent/Documents/Minimax/BorisNeveu/BorisNeveuDataLight.mx"
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Average value analysis

Nous étudions ici l'évolution de la moyenne de différents paramètres en fonction du temps

Par exemple, lors de l'avancée du bateau, on peut décomposer l'évolution de la vitesse en deux composantes :

- Une vitesse moyenne qui varie lentement
- Une oscillation (accélération puis ralentissement) à chaque coup de pagaie

Cette section étudie l'évolution de la valeur moyenne, en fonction du temps, entre la 3 ème et la 12 ème seconde de chaque essai.

Aggregation

Trois tableaux qui résument grossièrement les données. Ces tableaux donnent des indications sur 12 propriétés de la dynamique du bateau.
Le premier tableau donne les moyennes et écarts types sur tous les essais.
Le deuxième donne les moyennes obtenues dans chaque cas.
Le troisième est le plus intéressant, il donne l'écart relatif de chaque essai par rapport à la moyenne.

Pour faire simple, il faut regarder le troisième tableau.
Pour chaque série de donnée, ce tableau indique si la configuration fait augmenter ou diminuer la valeur moyenne du paramètre
Si la valeur est proche de zéro, la configuration ne change pas grand chose au paramètre.
Entre différents essais sur la même configuration, on peut s'attendre à une valeur entre 1 et -1, donc les valeurs comprises entre -1 et 1 sont clairement non significatives d'une différence entre les configurations.
Si la valeur s'écarte de zéro de plus de 3 unités, on peut commencer à dire que la différence est significative.

Si l'on regarde le tableau, on voit donc que statistiquement, les écarts impliqués par les différentes configurations ne sont pas statistiquement significatifs.
Par exemple, le tableau montre que les effets sur la vitesse moyenne du bateau (Forward Velocity) ne sont pas significatifs.
Il y a parfois plus d'écart entre deux essais avec la même configuration que entre deux essais avec une configuration différente.

Global stats

	Mean	Deviation
Forward Acceleration	0.0257998	0.00710201
Right Acceleration	0.0492947	0.0197152
Up Acceleration	0.00453497	0.00764552
Forward Velocity	3.38121	0.0345231
Right Velocity	−0.000227248	0.000629202
Up Velocity	0.0276636	0.02302
Pitch Angular Acceleration	−0.00252484	0.000543946
Yaw Angular Acceleration	−0.0000113431	0.0000538134
Roll Angular Acceleration	0.00164636	0.00187813
Pitch Angular Velocity	0.0139929	0.00227884
Yaw Angular Velocity	0.0217102	0.000152651
Roll Angular Velocity	0.00176098	0.000997931

Detailled Means

Out[262]=

	Series 1 to 3	Series 4 to 6	Series 7 to 9	Series 10 to 12
Forward Acceleration	0.0374442	0.0261542	0.0282299	0.0265276
Right Acceleration	0.0302338	0.0818087	0.0726247	0.0664892
Up Acceleration	0.0258692	−0.00368046	0.00242918	0.00121017
Forward Velocity	3.41137	3.42386	3.3871	3.41291
Right Velocity	−0.000731481	0.000445951	−0.000502053	−0.000865768
Up Velocity	0.100383	0.0271228	0.0461575	0.033469
Pitch Angular Acceleration	−0.00269031	−0.000828088	−0.00264927	−0.00232017
Yaw Angular Acceleration	−0.0000493085	−0.0000631552	−0.0000402462	0.0000563595
Roll Angular Acceleration	0.0027977	0.000295799	0.00431337	0.00529056
Pitch Angular Velocity	0.0146894	0.0145089	0.0153601	0.0167471
Yaw Angular Velocity	0.0219045	0.0215104	0.0216681	0.0218897
Roll Angular Velocity	0.00292423	0.00129499	0.00195807	−0.00180503

Detailled Relative Standard Deviation

	Series 1 to 3	Series 4 to 6	Series 7 to 9	Series 10 to 12
Forward Acceleration	0.82882	−0.0290428	−0.0321903	−0.767587
Right Acceleration	−0.371284	0.0734681	0.192861	0.104955
Up Acceleration	1.11264	−0.395089	−0.569055	−0.148496
Forward Velocity	0.487389	−0.288225	−0.0552244	−0.14394
Right Velocity	0.0944799	−0.287278	0.0815101	0.111288
Up Velocity	0.527858	−0.327646	−0.219406	0.0191936
Pitch Angular Acceleration	−0.56059	1.54915	−0.905102	−0.0834573
Yaw Angular Acceleration	0.476743	−0.276611	−0.319455	0.119324
Roll Angular Acceleration	−0.000331996	−0.167162	−0.0571734	0.224667
Pitch Angular Velocity	0.787271	0.0972545	−0.497741	−0.386785
Yaw Angular Velocity	0.140462	−0.568357	0.272782	0.155113
Roll Angular Velocity	1.38639	−0.76489	0.512974	−1.13447

Evolution

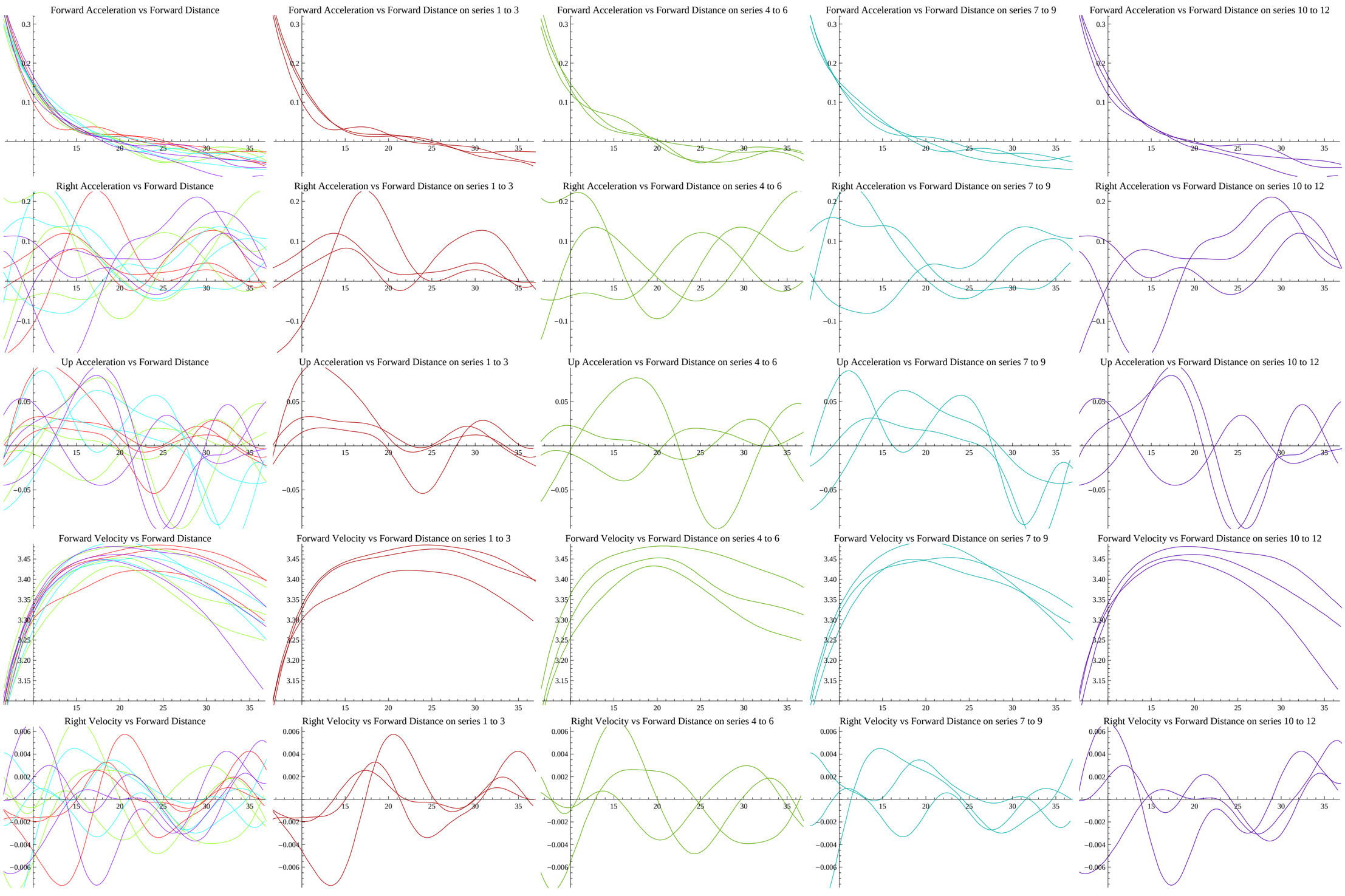
Pour entrer un peu plus dans le detail de ces oscillations, nous allons étudier la variation dans le temps sur chaque essai.

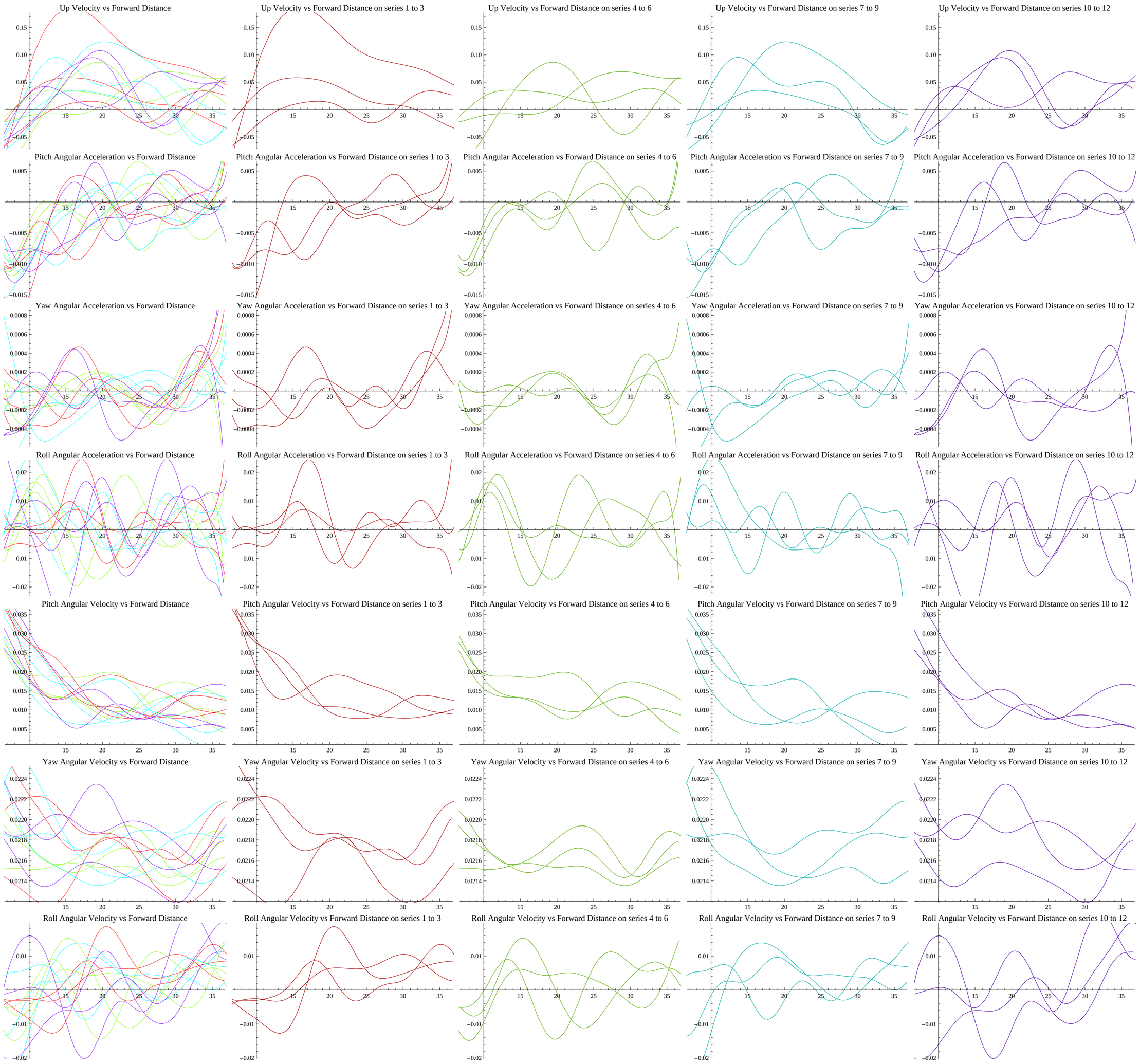
Pour chaque essai nous avons une courbe:
- En abscisse se trouve la distance parcourue depuis le départ
- En ordonnée se trouve l'amplitude RMS des oscillations.

Pour reprendre l'exemple de la vitesse, ici, une courbe de vitesse élevée signifie que la vitesse moyenne est élevée, mais ne donne pas d'indication sur les variations réelles de la vitesse autour de cette moyenne.

Nous constatons avec ces courbes que effectivement, il est difficile de voir des différences dans l'allure des courbes d'une configuration à l'autre.

Par exemple, les courbes de vitesse (Forward Velocity) sont entremelées, il semble difficile de faire un classement entre les différentes configurations.





Oscillations Analysis

Nous étudions ici l'amplitude des oscillations d'une valeur autour de sa valeur moyenne.

Par exemple, lors de l'avancée du bateau, on peut décomposer l'évolution de la vitesse en deux composantes :
- Une vitesse moyenne qui varie lentement
- Une oscillation (accélération puis ralentissement) à chaque coup de pagaie

Cette section étudie l'amplitude des oscillations, en fonction du temps, entre la 3 ème et la 12 ème seconde de chaque essai.

Aggregation RMS

Trois tableaux qui résument grossièrement les données.
Le premier tableau donne les moyennes et écarts types sur tous les essais.
Le deuxième donne les moyennes obtenues dans chaque configuration.
Le troisième donne l'écart de ces moyennes chaque essai par rapport à la moyenne générale, en nombre d'écarts types.

Pour faire simple, il faut regarder le troisième tableau.
Pour chaque série de donnée, ce tableau indique si la configuration fait augmenter ou diminuer les variations du paramètre.
Si la valeur est proche de zéro, la configuration ne change pas grand chose au paramètre.
Entre différents essais sur la même configuration, on peut s'attendre à une valeur entre 1 et -1, donc les valeurs comprises entre -1 et 1 sont clairement non significatives d'une différence entre les configurations.
Si la valeur s'écarte de zéro de plus de 3 unités, on peut commencer à dire que la différence est significative.

Si l'on regarde le tableau, on trouve deux effets qui peuvent peut être commencer à être statistiquement significatifs :
- L'effet sur l'oscillation de l'accélération en tangage : Dans les essais 1 à 3, le bateau oscille plus doucement qu'à l'habitude en tangage, et sur les essais 7 à 9, il oscille plus brutalement
- L'effet sur l'oscillation en vitesse d'avancement : Dans les essais 7 à 9, le bateau semble avancer plus par à coups que sur les autres essais.

Même s'ils sont légèrement statistiquement significatifs, il se peut que ces effets soient dû à des biais dans l'étude, tels que la fatigue du pagayeur, un changement de technique, ou d'autres.

Global stats

	Mean	Deviation
Forward Acceleration	2.39783	0.0280308
Right Acceleration	1.93209	0.114002
Up Acceleration	0.766189	0.086301
Forward Velocity	0.163155	0.00154777
Right Velocity	0.163548	0.0101149
Up Velocity	0.060825	0.00956013
Pitch Angular Acceleration	2.43607	0.346723
Yaw Angular Acceleration	0.323116	0.00676036
Roll Angular Acceleration	8.23275	0.471655
Pitch Angular Velocity	0.0876229	0.00313557
Yaw Angular Velocity	0.00638975	0.00012499
Roll Angular Velocity	0.483738	0.0184907

Detailled Means

Out[275]=

	Series 1 to 3	Series 4 to 6	Series 7 to 9	Series 10 to 12
Forward Acceleration	2.39985	2.43115	2.36023	2.41766
Right Acceleration	1.90828	2.0292	1.79701	1.80033
Up Acceleration	0.672803	0.66445	0.7197	0.882997
Forward Velocity	0.162743	0.163833	0.158121	0.16444
Right Velocity	0.17215	0.176019	0.148173	0.147302
Up Velocity	0.0512697	0.0492729	0.0536589	0.0669412
Pitch Angular Acceleration	1.59825	2.52528	3.09288	2.73859
Yaw Angular Acceleration	0.305203	0.321766	0.327042	0.32407
Roll Angular Acceleration	7.28939	8.00425	7.97207	8.95579
Pitch Angular Velocity	0.0827115	0.0857975	0.0906477	0.0888871
Yaw Angular Velocity	0.00660111	0.00645018	0.00616525	0.00672975
Roll Angular Velocity	0.410913	0.477622	0.509305	0.512299

Detailled Relative Standard Deviation

	Series 1 to 3	Series 4 to 6	Series 7 to 9	Series 10 to 12
Forward Acceleration	−0.858113	1.64335	−1.46878	0.683542
Right Acceleration	0.0207919	0.800972	−0.190507	−0.631257
Up Acceleration	−0.978954	−0.409035	0.539585	0.848405
Forward Velocity	−0.332564	1.56429	−2.99574	1.76401
Right Velocity	0.801225	1.02325	−0.653424	−1.17105
Up Velocity	−0.713908	−0.597116	0.637365	0.673659
Pitch Angular Acceleration	−2.53093	−0.358392	3.02921	−0.139891
Yaw Angular Acceleration	−1.02873	0.0408143	0.940252	0.04766
Roll Angular Acceleration	−1.16172	0.0168926	0.451093	0.693739
Pitch Angular Velocity	−1.24075	1.2365	0.228328	−0.224078
Yaw Angular Velocity	0.415921	−0.710498	−1.13994	1.43452
Roll Angular Velocity	−1.70074	−0.0868978	0.985573	0.802067

Evolution RMS

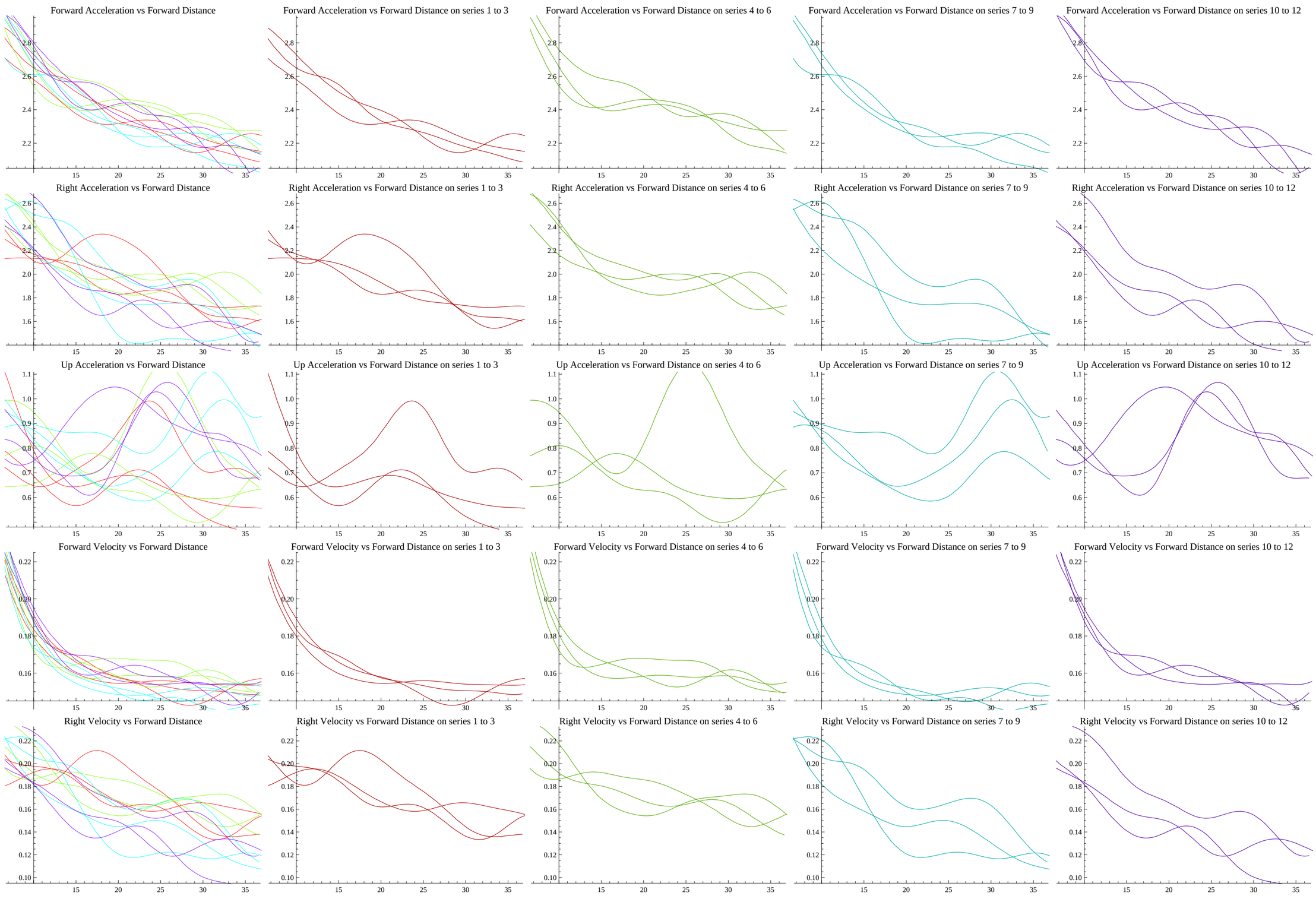
Pour entrer un peu plus dans le detail de ces oscillations, nous allons étudier la variation dans le temps sur chaque essai.

Pour chaque essai nous avons une courbe:

En abscisse se trouve la distance parcourue depuis le départ
En ordonnée se trouve l'amplitude RMS des oscillations.

Pour reprendre l'exemple de la vitesse, ici, une courbe de vitesse élevée ne signifie PAS que la vitesse est élevée, mais signifie que les variations de la vitesse autour de sa valeur moyenne sont grandes.

Nous constatons avec ces courbes que effectivement, il est difficile de voir des différences dans l'allure des courbes d'une configuration à l'autre.
Les seules différences visibles sont les mêmes que celles qui ont été mises en valeur par le tableau précédent.



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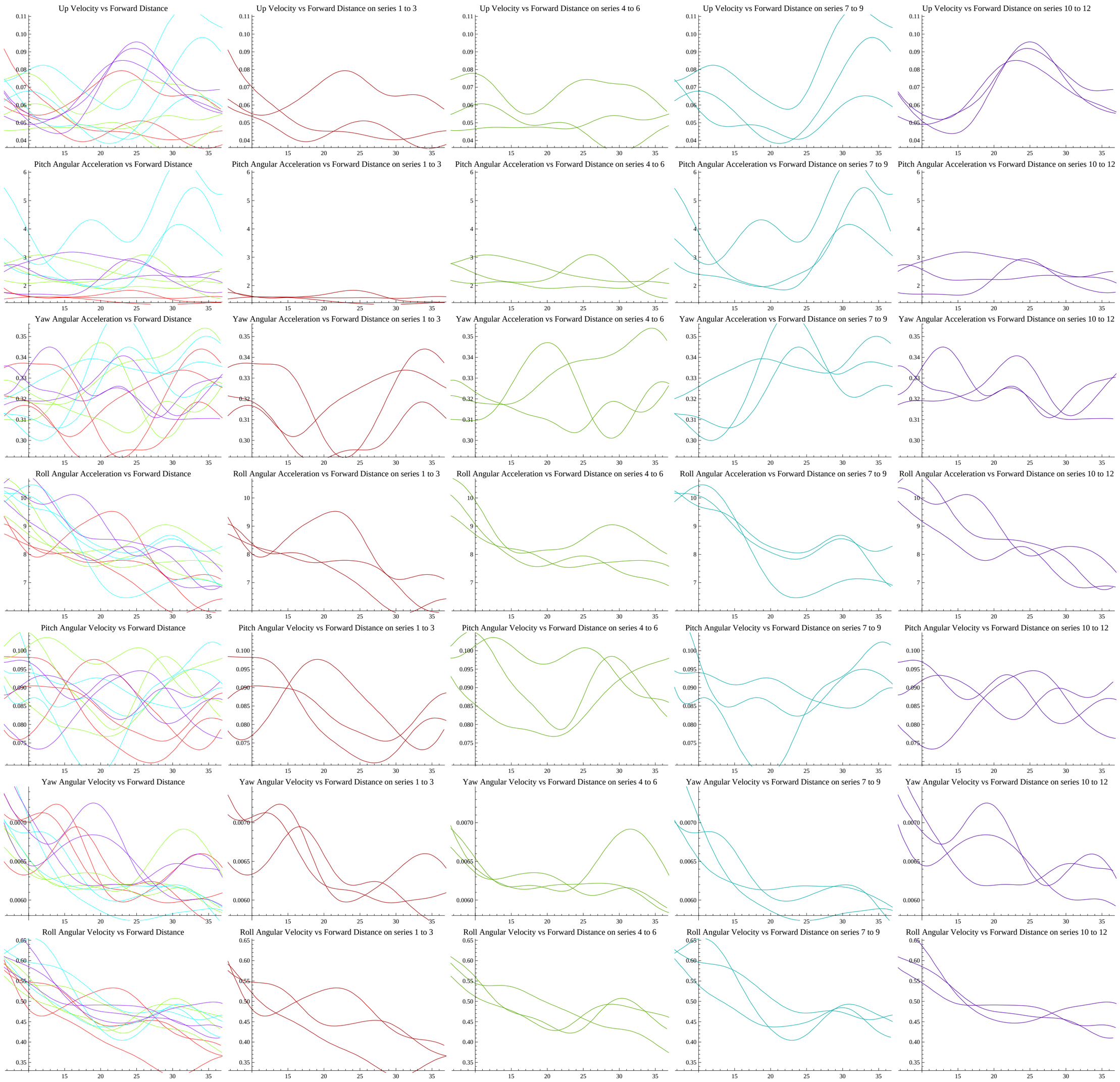


Correlations

Nous étudions ici les variations et corrélations des paramètres dynamiques du bateau.

Ceci nous donne une vision plus fine, puisqu'au lieu d'étudier les paramètres séparément, nous étudions leurs relations dans le temps.

Chaque ligne de ces tableaux représentent les variations des paramètres du bateau pour un couple de deux variables.
Nous avons 12 paramètres dynamiques, donc nous avons 12 ◊ 12 = 144 couples de paramètres, donc 144 lignes au tableau.

Les formes ainsi créées nous informent sur la dynamique du bateau et permettent de voir des différences qui n'apparaitraient pas forcément dans d'autres graphiques.

Une variation de la dynamique du bateau entraine une déformation de la forme visualisée. Donc si les 4 formes correspondant aux 4 configurations sont similaires, alors la configuration n'influe pas sur la corrélation, le lien entre ces deux paramètres.

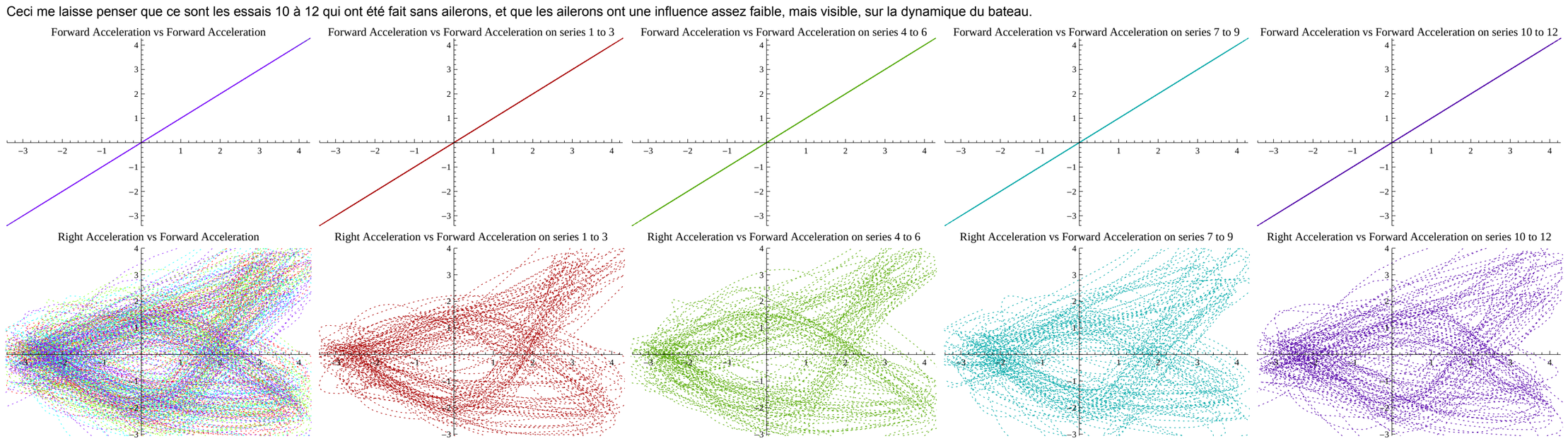
High frequency pair correlations

Ce tableau présente les corrélations sur les données à haute fréquence, entre 2Hz et 20Hz

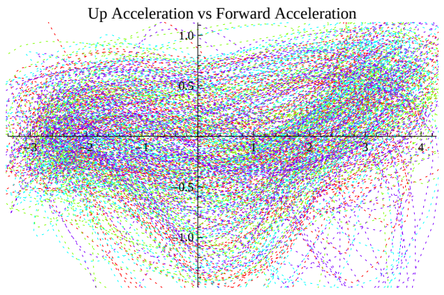
La seule différence visible semble porter sur la vitesse latérale du bateau (Right Velocity), c'est à dire la vitesse de dérapage à droite et à gauche sur chaque coup de pagaie. Celle-ci semble moins structurée dans les essais 10 à 12.
Par exemple, les courbes "Up Velocity vs Right Velocity" sont bien structurée en forme de V dans les 3 premières configurations, mais plus dans la quatrième.

Les essais 10 à 12 semblent aussi avoir une vitesse verticale du bateau (Up Velocity) et une oscillation en lacet (Yaw Angular Acceleration) un peu moins structurées.

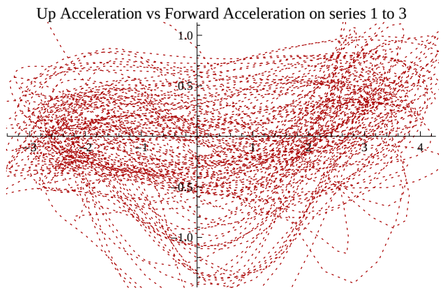
Ceci me laisse penser que ce sont les essais 10 à 12 qui ont été fait sans ailerons, et que les ailerons ont une influence assez faible, mais visible, sur la dynamique du bateau.



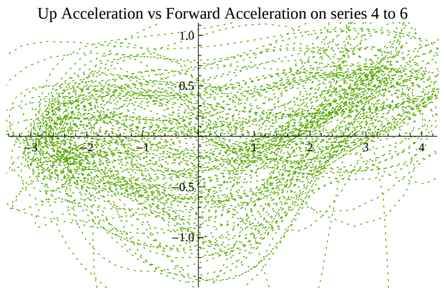
Up Acceleration vs Forward Acceleration



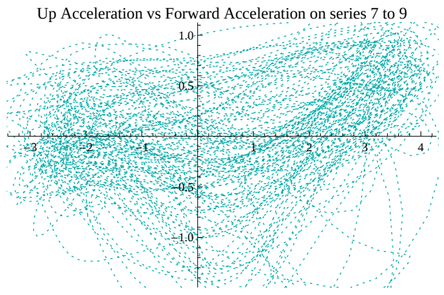
Up Acceleration vs Forward Acceleration on series 1 to 3



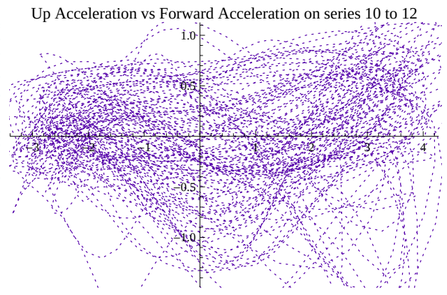
Up Acceleration vs Forward Acceleration on series 4 to 6



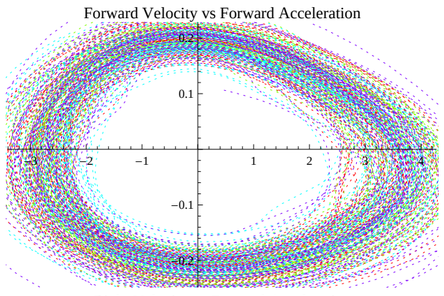
Up Acceleration vs Forward Acceleration on series 7 to 9



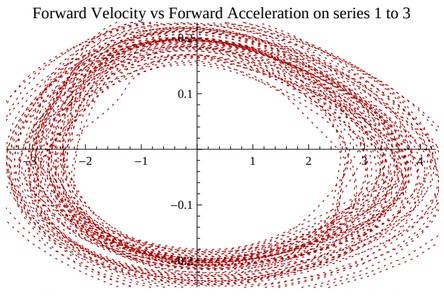
Up Acceleration vs Forward Acceleration on series 10 to 12



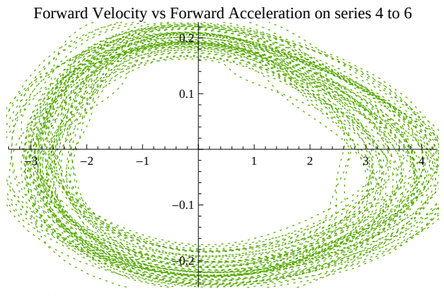
Forward Velocity vs Forward Acceleration



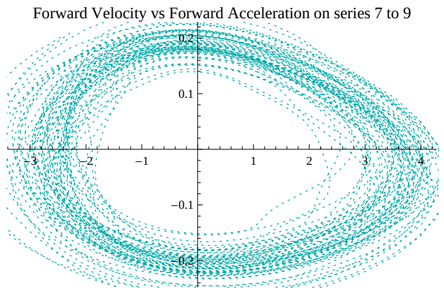
Forward Velocity vs Forward Acceleration on series 1 to 3



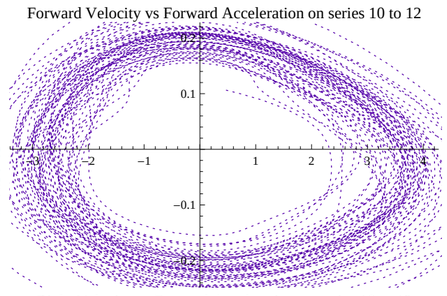
Forward Velocity vs Forward Acceleration on series 4 to 6



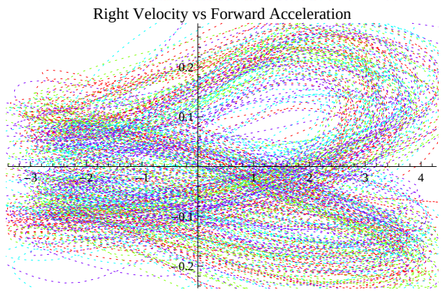
Forward Velocity vs Forward Acceleration on series 7 to 9



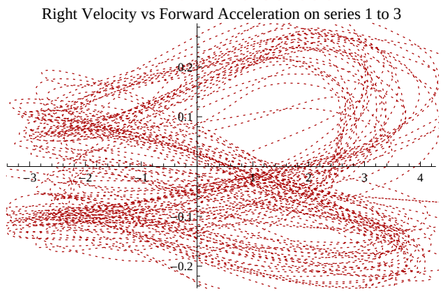
Forward Velocity vs Forward Acceleration on series 10 to 12



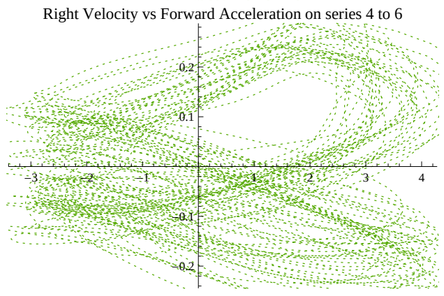
Right Velocity vs Forward Acceleration



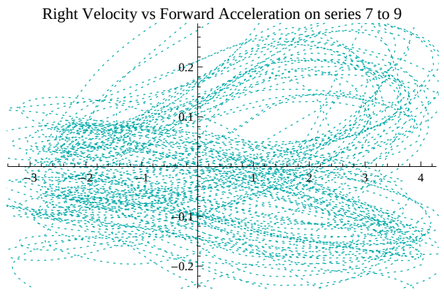
Right Velocity vs Forward Acceleration on series 1 to 3



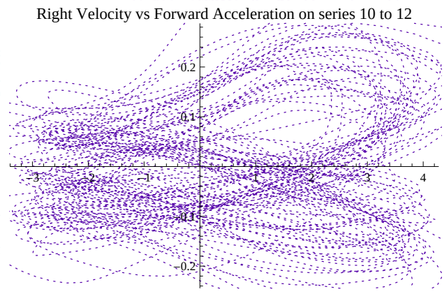
Right Velocity vs Forward Acceleration on series 4 to 6



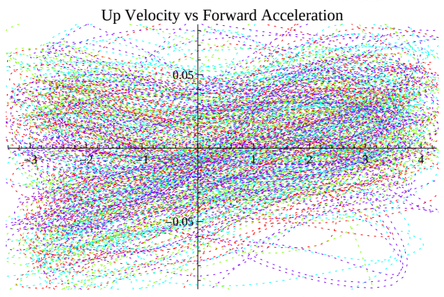
Right Velocity vs Forward Acceleration on series 7 to 9



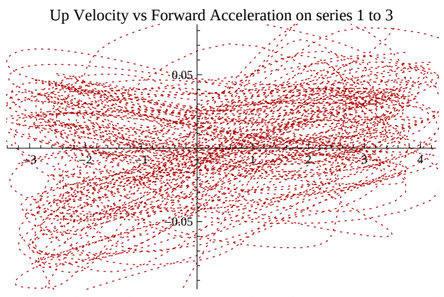
Right Velocity vs Forward Acceleration on series 10 to 12



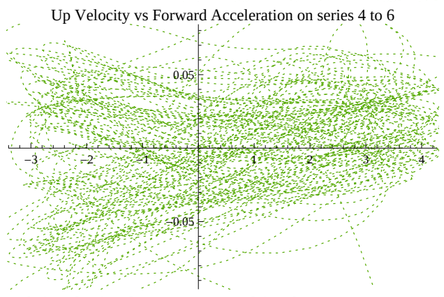
Up Velocity vs Forward Acceleration



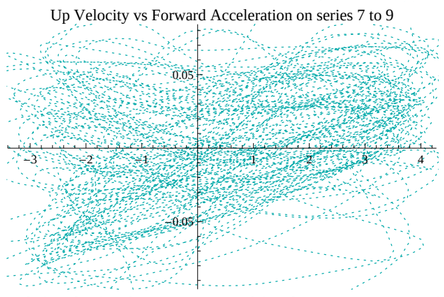
Up Velocity vs Forward Acceleration on series 1 to 3



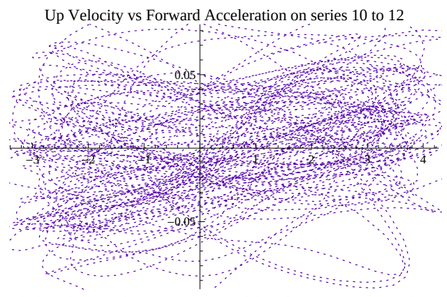
Up Velocity vs Forward Acceleration on series 4 to 6



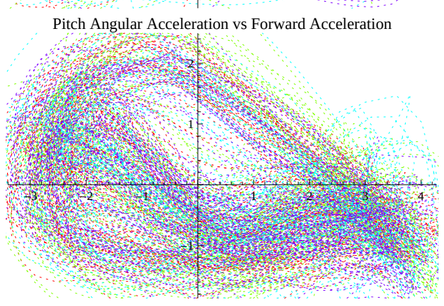
Up Velocity vs Forward Acceleration on series 7 to 9



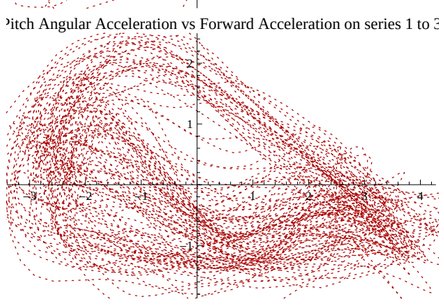
Up Velocity vs Forward Acceleration on series 10 to 12



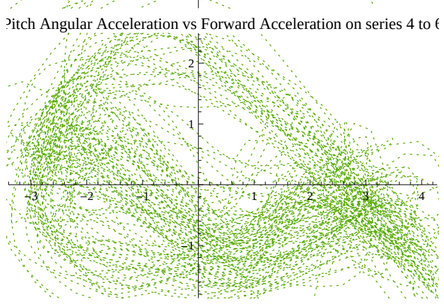
Pitch Angular Acceleration vs Forward Acceleration



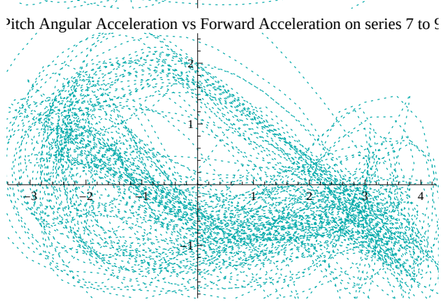
Pitch Angular Acceleration vs Forward Acceleration on series 1 to 3



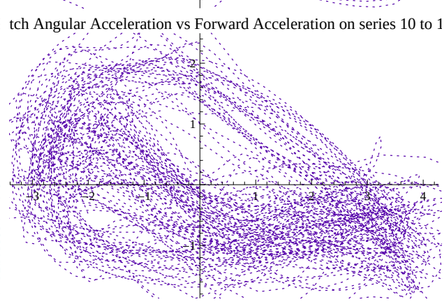
Pitch Angular Acceleration vs Forward Acceleration on series 4 to 6



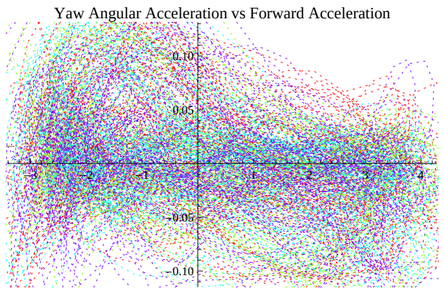
Pitch Angular Acceleration vs Forward Acceleration on series 7 to 9



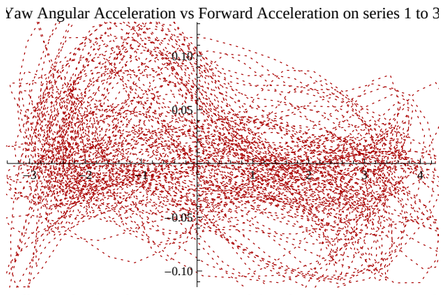
tch Angular Acceleration vs Forward Acceleration on series 10 to 1



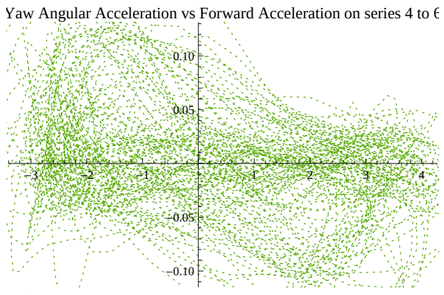
Yaw Angular Acceleration vs Forward Acceleration



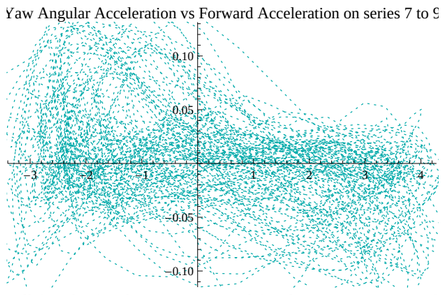
Yaw Angular Acceleration vs Forward Acceleration on series 1 to 3



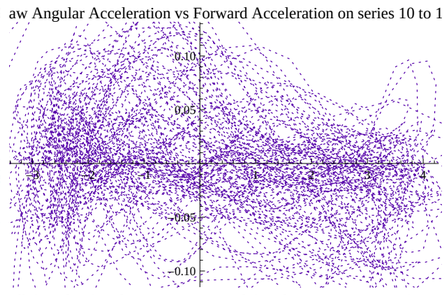
Yaw Angular Acceleration vs Forward Acceleration on series 4 to 6



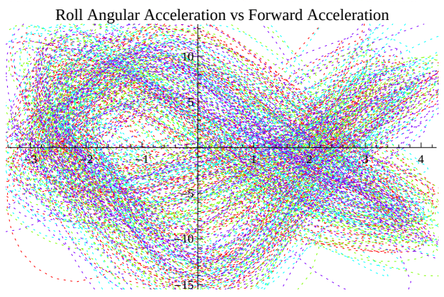
Yaw Angular Acceleration vs Forward Acceleration on series 7 to 9



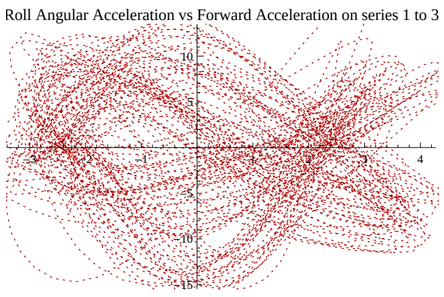
aw Angular Acceleration vs Forward Acceleration on series 10 to 1



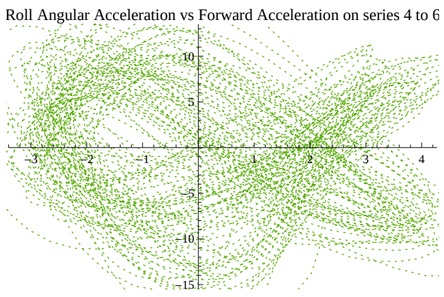
Roll Angular Acceleration vs Forward Acceleration



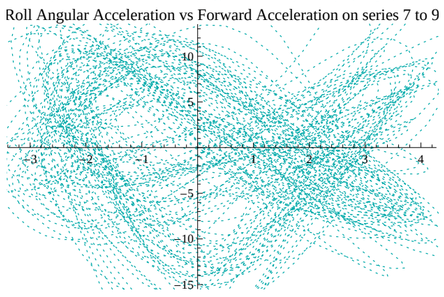
Roll Angular Acceleration vs Forward Acceleration on series 1 to 3



Roll Angular Acceleration vs Forward Acceleration on series 4 to 6



Roll Angular Acceleration vs Forward Acceleration on series 7 to 9



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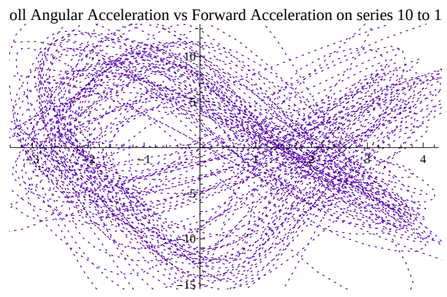
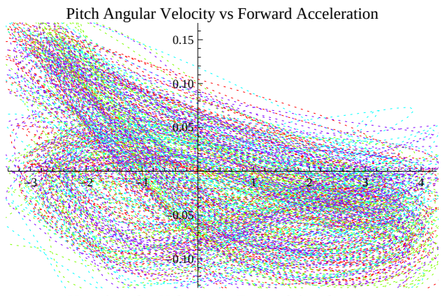
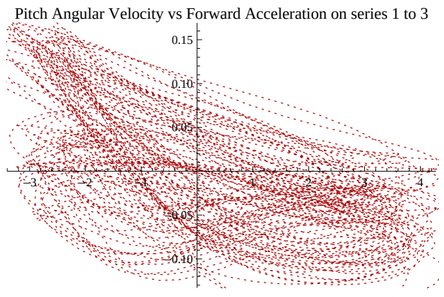


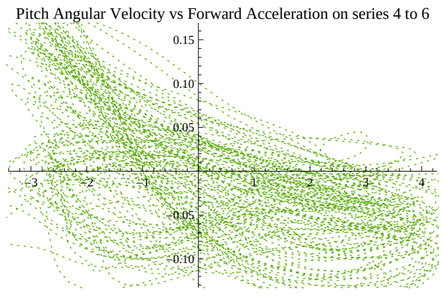
Pitch Angular Velocity vs Forward Acceleration



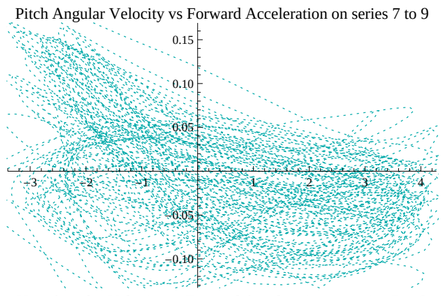
Pitch Angular Velocity vs Forward Acceleration on series 1 to 3



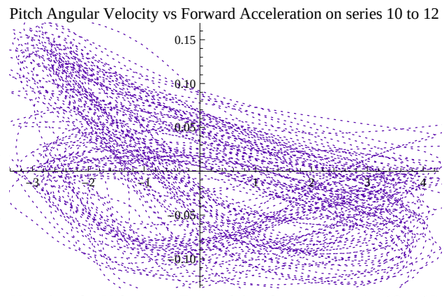
Pitch Angular Velocity vs Forward Acceleration on series 4 to 6



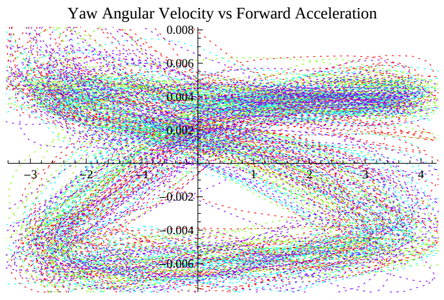
Pitch Angular Velocity vs Forward Acceleration on series 7 to 9



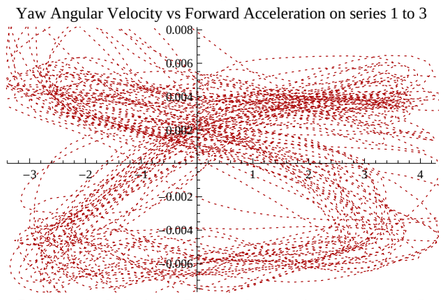
Pitch Angular Velocity vs Forward Acceleration on series 10 to 12



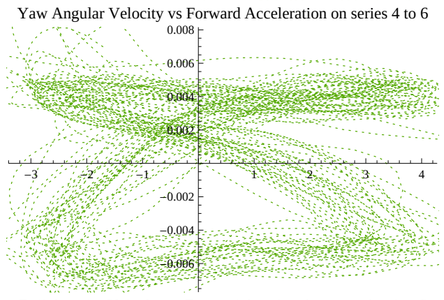
Yaw Angular Velocity vs Forward Acceleration



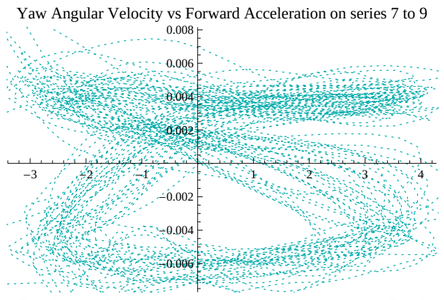
Yaw Angular Velocity vs Forward Acceleration on series 1 to 3



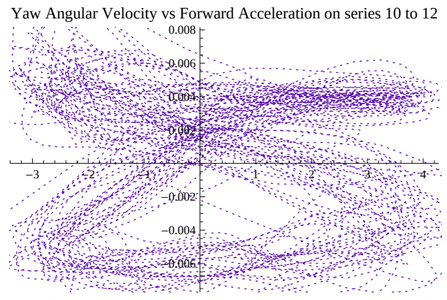
Yaw Angular Velocity vs Forward Acceleration on series 4 to 6



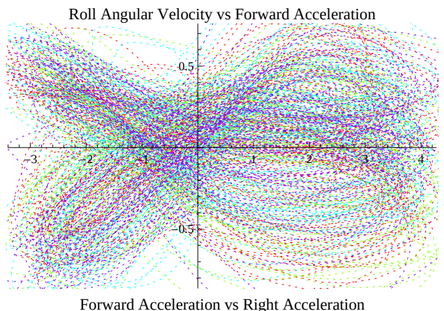
Yaw Angular Velocity vs Forward Acceleration on series 7 to 9



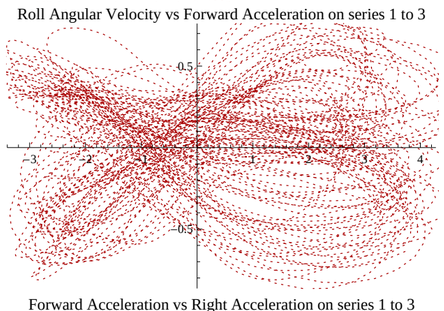
Yaw Angular Velocity vs Forward Acceleration on series 10 to 12



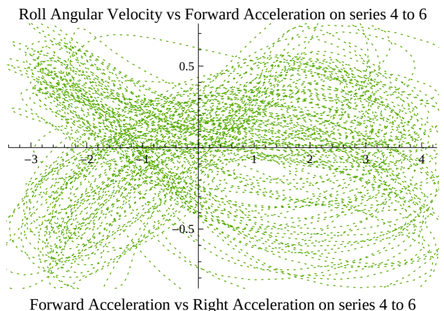
Roll Angular Velocity vs Forward Acceleration



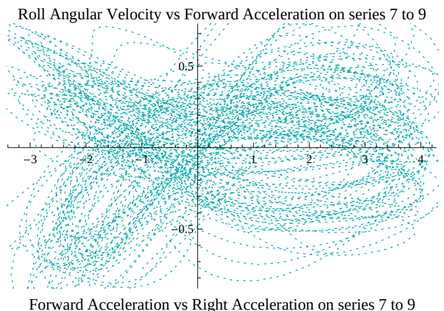
Roll Angular Velocity vs Forward Acceleration on series 1 to 3



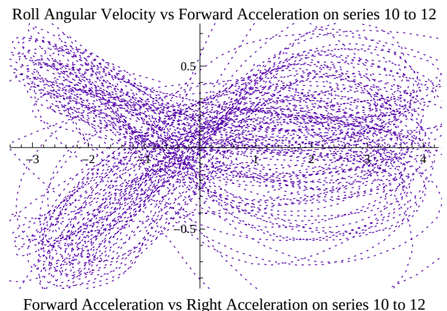
Roll Angular Velocity vs Forward Acceleration on series 4 to 6



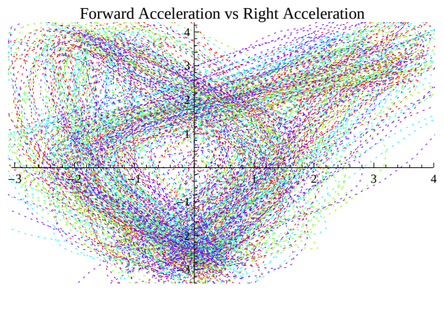
Roll Angular Velocity vs Forward Acceleration on series 7 to 9



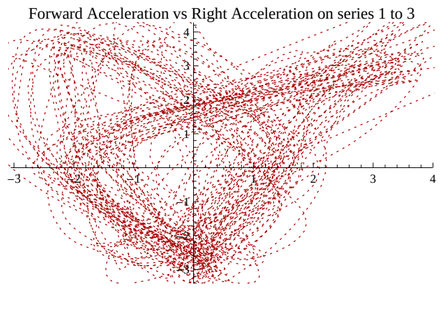
Roll Angular Velocity vs Forward Acceleration on series 10 to 12



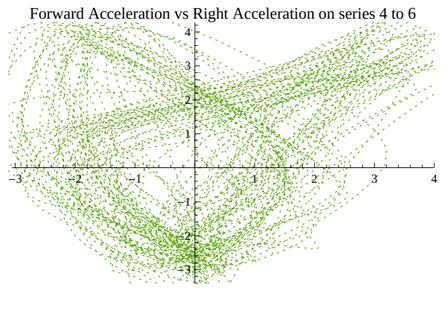
Forward Acceleration vs Right Acceleration



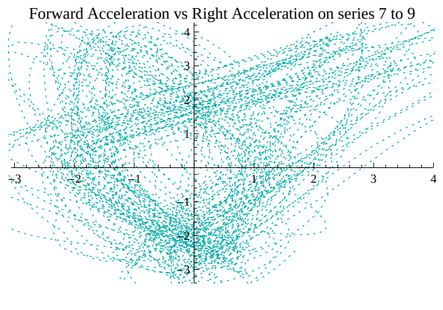
Forward Acceleration vs Right Acceleration on series 1 to 3



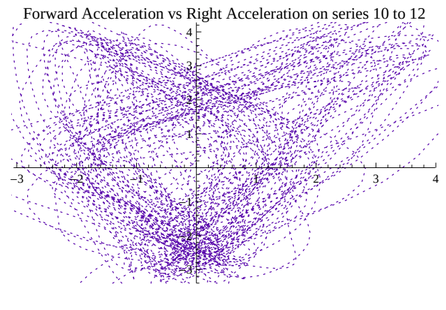
Forward Acceleration vs Right Acceleration on series 4 to 6



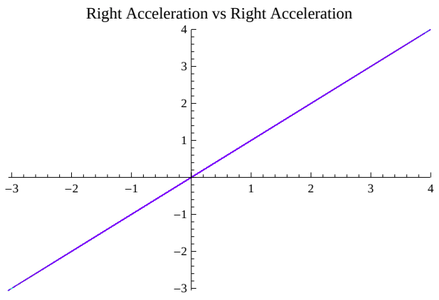
Forward Acceleration vs Right Acceleration on series 7 to 9



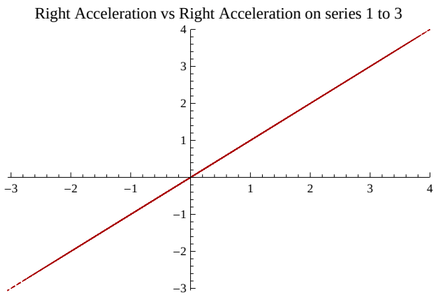
Forward Acceleration vs Right Acceleration on series 10 to 12



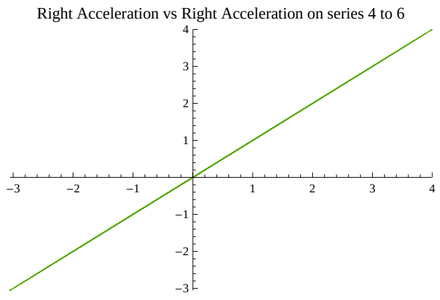
Right Acceleration vs Right Acceleration



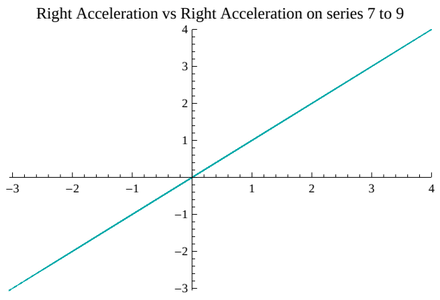
Right Acceleration vs Right Acceleration on series 1 to 3



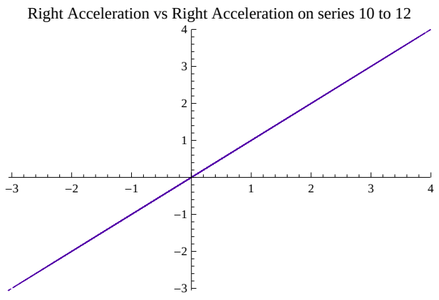
Right Acceleration vs Right Acceleration on series 4 to 6



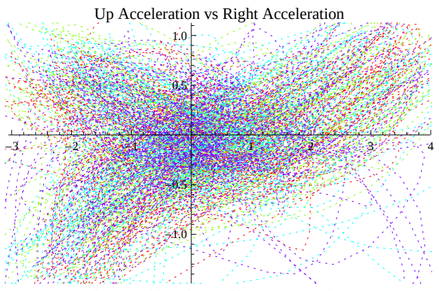
Right Acceleration vs Right Acceleration on series 7 to 9



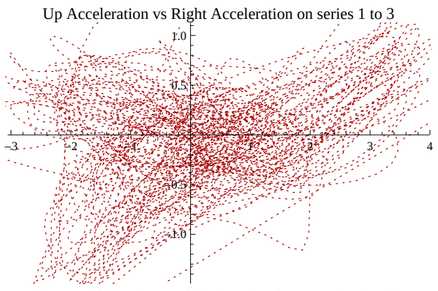
Right Acceleration vs Right Acceleration on series 10 to 12



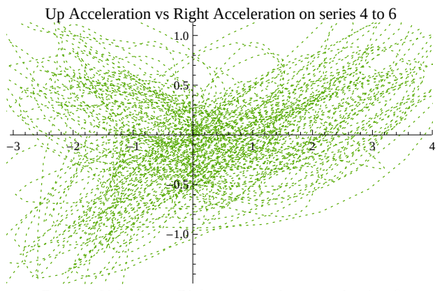
Up Acceleration vs Right Acceleration



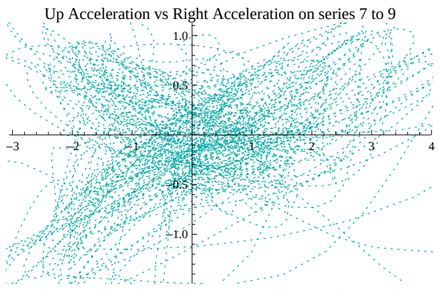
Up Acceleration vs Right Acceleration on series 1 to 3



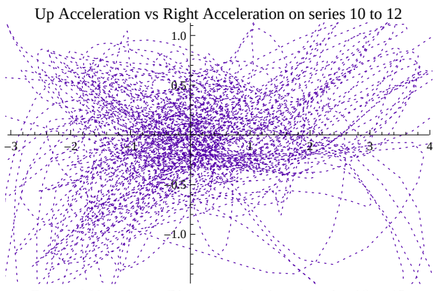
Up Acceleration vs Right Acceleration on series 4 to 6



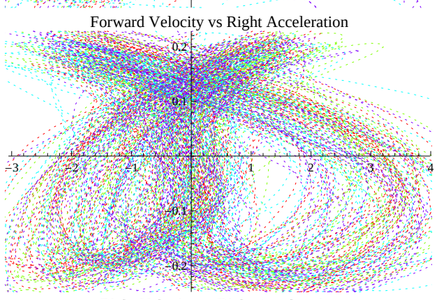
Up Acceleration vs Right Acceleration on series 7 to 9



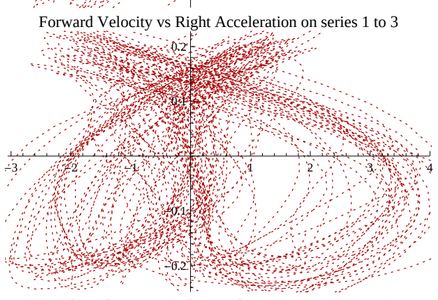
Up Acceleration vs Right Acceleration on series 10 to 12



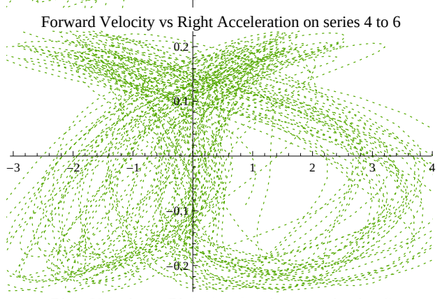
Forward Velocity vs Right Acceleration



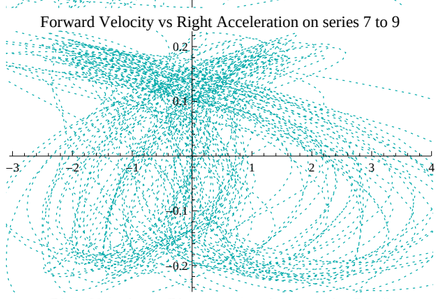
Forward Velocity vs Right Acceleration on series 1 to 3



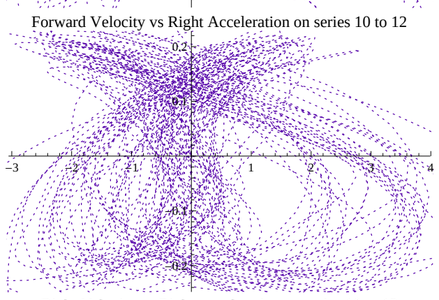
Forward Velocity vs Right Acceleration on series 4 to 6



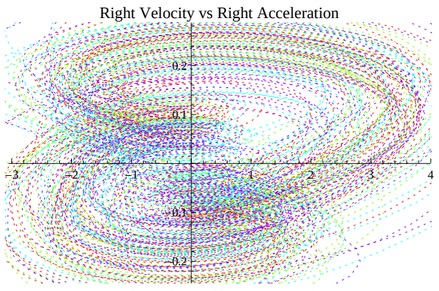
Forward Velocity vs Right Acceleration on series 7 to 9



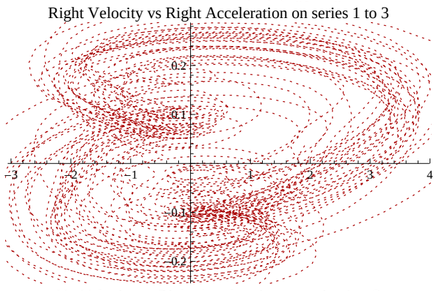
Forward Velocity vs Right Acceleration on series 10 to 12



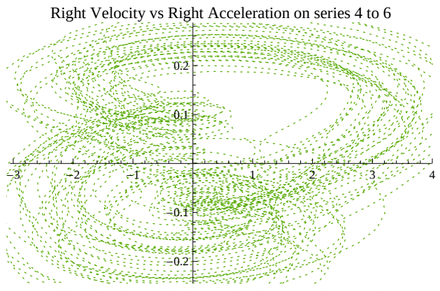
Right Velocity vs Right Acceleration



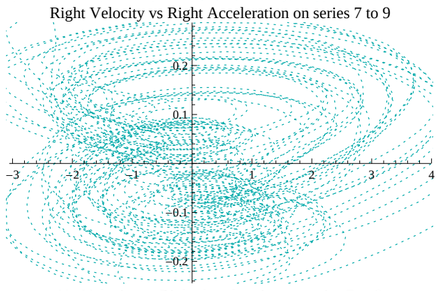
Right Velocity vs Right Acceleration on series 1 to 3



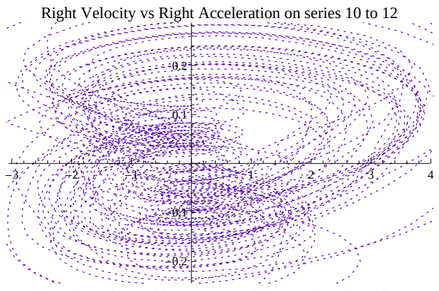
Right Velocity vs Right Acceleration on series 4 to 6



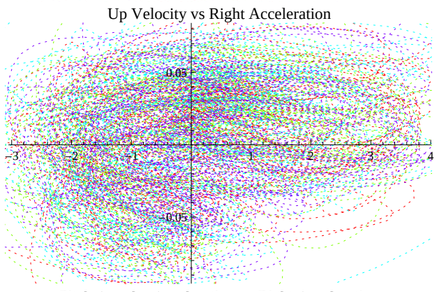
Right Velocity vs Right Acceleration on series 7 to 9



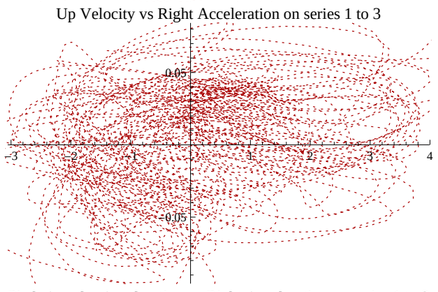
Right Velocity vs Right Acceleration on series 10 to 12



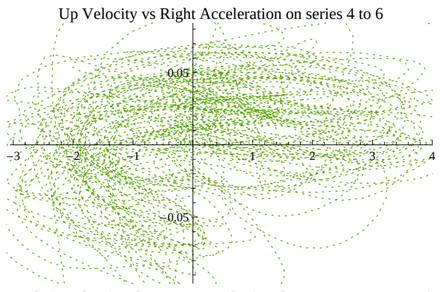
Up Velocity vs Right Acceleration



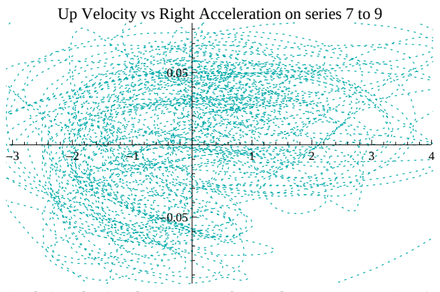
Up Velocity vs Right Acceleration on series 1 to 3



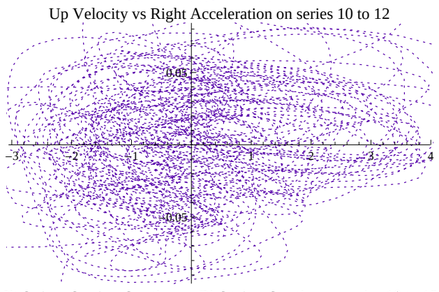
Up Velocity vs Right Acceleration on series 4 to 6



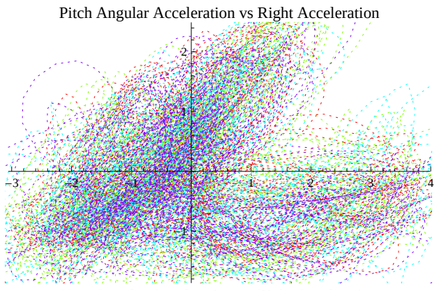
Up Velocity vs Right Acceleration on series 7 to 9



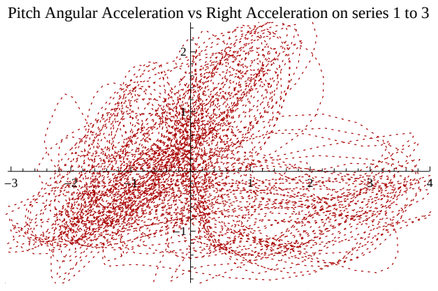
Up Velocity vs Right Acceleration on series 10 to 12



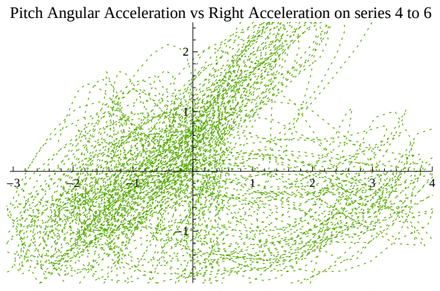
Pitch Angular Acceleration vs Right Acceleration



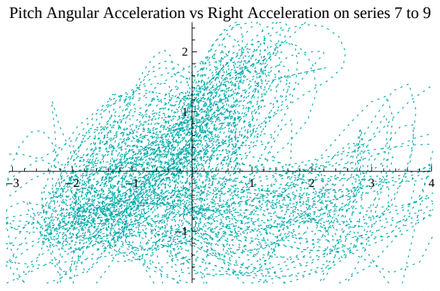
Pitch Angular Acceleration vs Right Acceleration on series 1 to 3



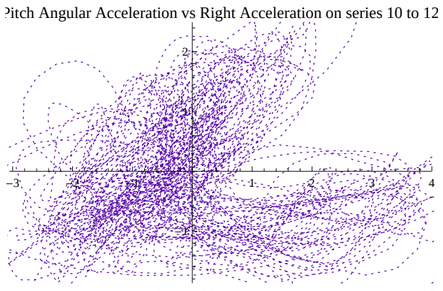
Pitch Angular Acceleration vs Right Acceleration on series 4 to 6



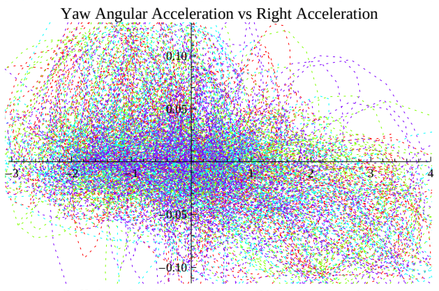
Pitch Angular Acceleration vs Right Acceleration on series 7 to 9



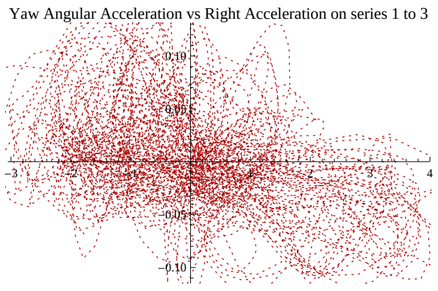
Pitch Angular Acceleration vs Right Acceleration on series 10 to 12



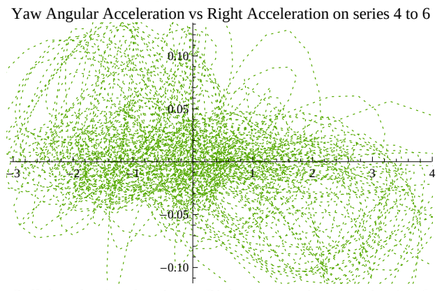
Yaw Angular Acceleration vs Right Acceleration



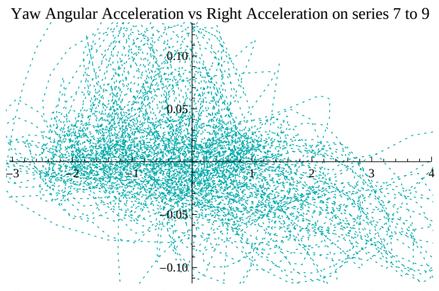
Yaw Angular Acceleration vs Right Acceleration on series 1 to 3



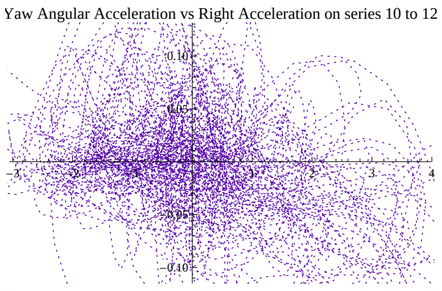
Yaw Angular Acceleration vs Right Acceleration on series 4 to 6



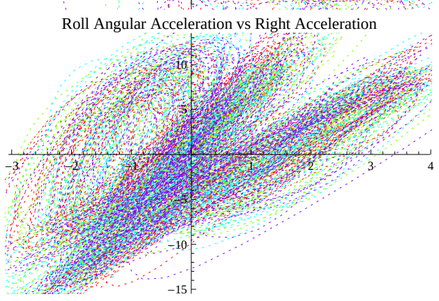
Yaw Angular Acceleration vs Right Acceleration on series 7 to 9



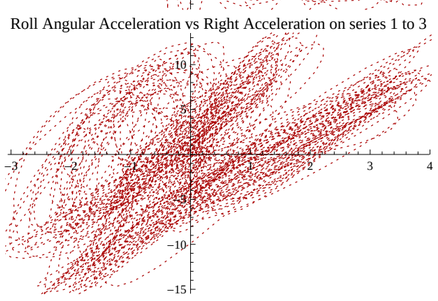
Yaw Angular Acceleration vs Right Acceleration on series 10 to 12



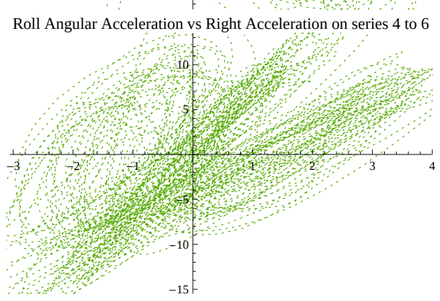
Roll Angular Acceleration vs Right Acceleration



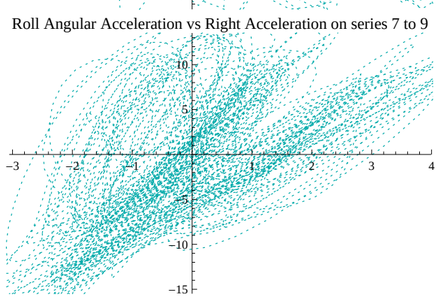
Roll Angular Acceleration vs Right Acceleration on series 1 to 3



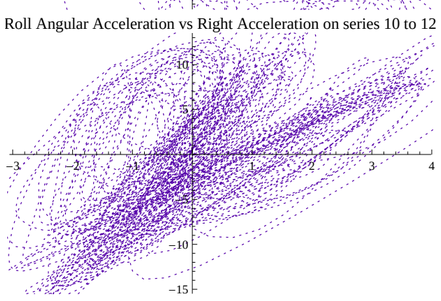
Roll Angular Acceleration vs Right Acceleration on series 4 to 6



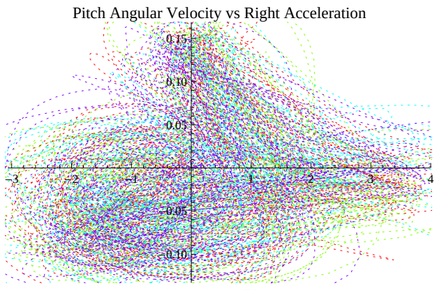
Roll Angular Acceleration vs Right Acceleration on series 7 to 9



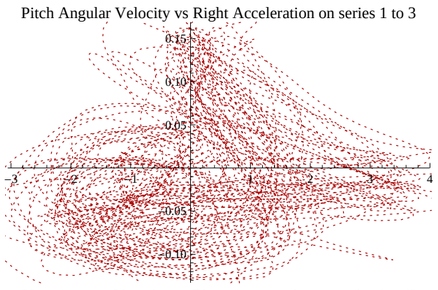
Roll Angular Acceleration vs Right Acceleration on series 10 to 12



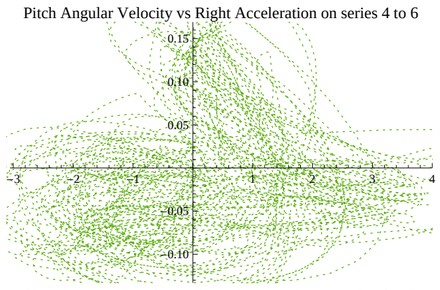
Pitch Angular Velocity vs Right Acceleration



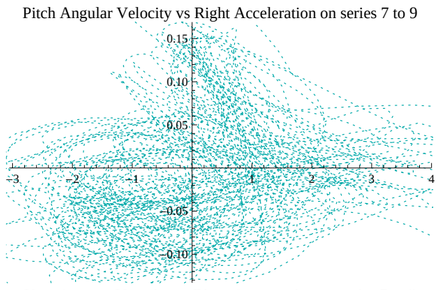
Pitch Angular Velocity vs Right Acceleration on series 1 to 3



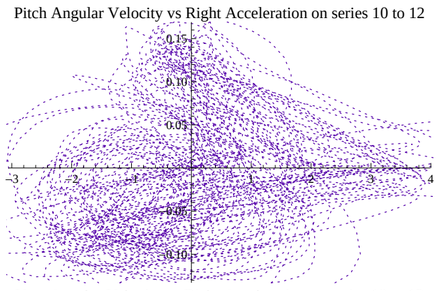
Pitch Angular Velocity vs Right Acceleration on series 4 to 6



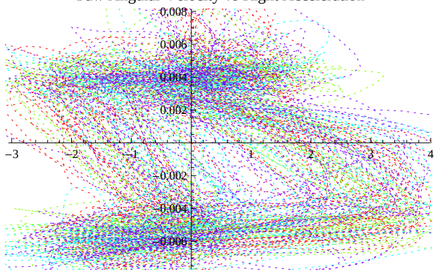
Pitch Angular Velocity vs Right Acceleration on series 7 to 9



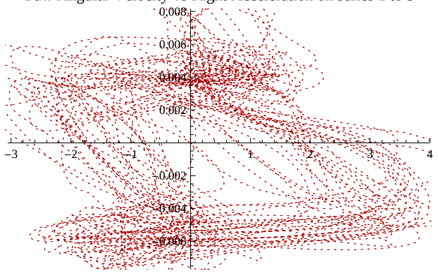
Pitch Angular Velocity vs Right Acceleration on series 10 to 12



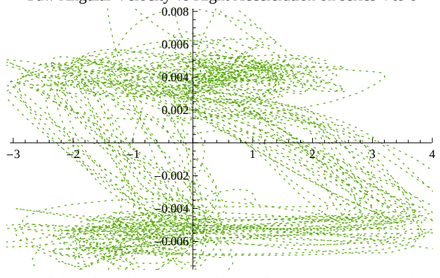
Yaw Angular Velocity vs Right Acceleration



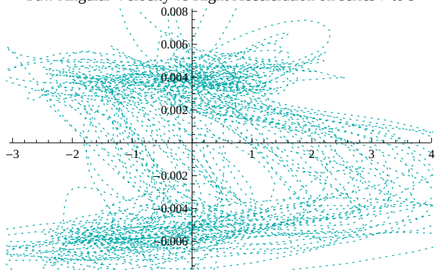
Yaw Angular Velocity vs Right Acceleration on series 1 to 3



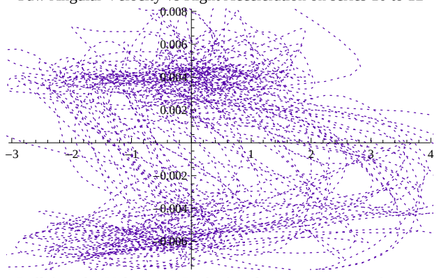
Yaw Angular Velocity vs Right Acceleration on series 4 to 6



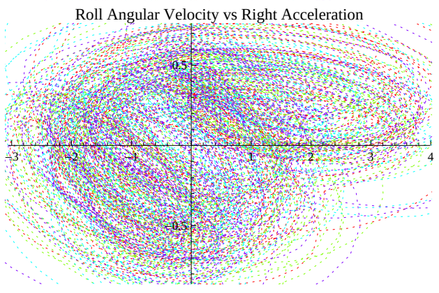
Yaw Angular Velocity vs Right Acceleration on series 7 to 9



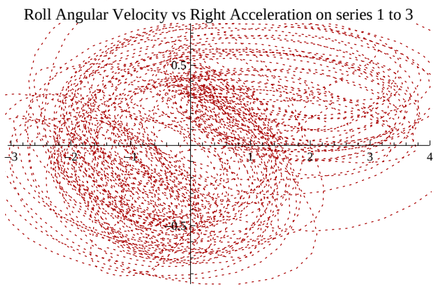
Yaw Angular Velocity vs Right Acceleration on series 10 to 12



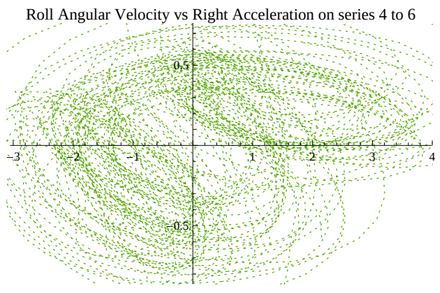
Roll Angular Velocity vs Right Acceleration



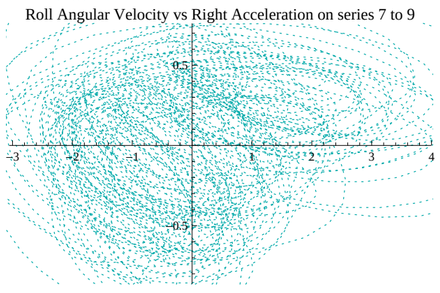
Roll Angular Velocity vs Right Acceleration on series 1 to 3



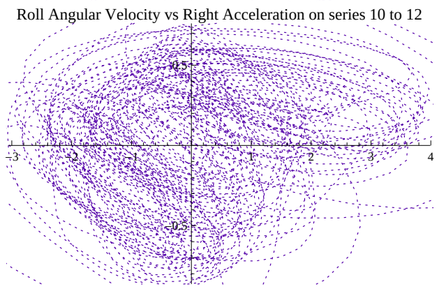
Roll Angular Velocity vs Right Acceleration on series 4 to 6

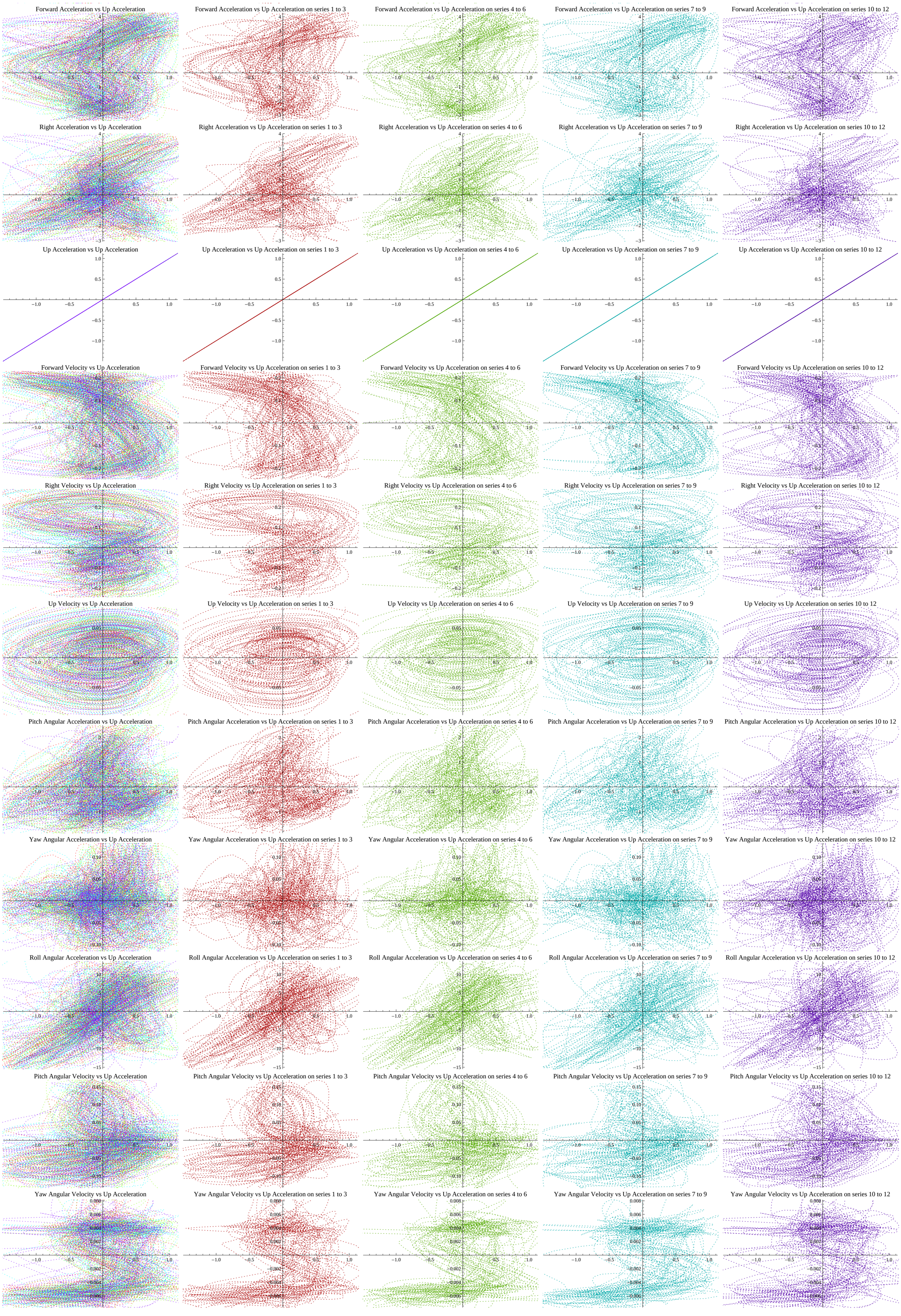


Roll Angular Velocity vs Right Acceleration on series 7 to 9

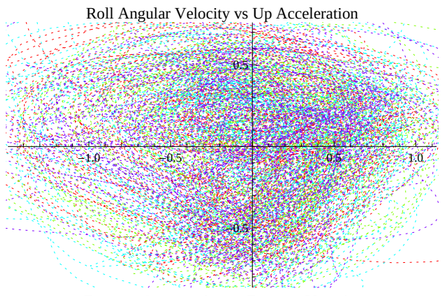


Roll Angular Velocity vs Right Acceleration on series 10 to 12

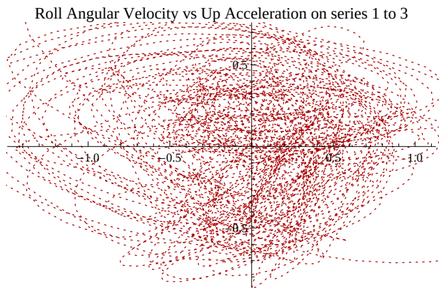



Forward Acceleration vs Up Acceleration
Forward Acceleration vs Up Acceleration on series 1 to 3
Forward Acceleration vs Up Acceleration on series 4 to 6
Forward Acceleration vs Up Acceleration on series 7 to 9
Forward Acceleration vs Up Acceleration on series 10 to 12
Right Acceleration vs Up Acceleration
Right Acceleration vs Up Acceleration on series 1 to 3
Right Acceleration vs Up Acceleration on series 4 to 6
Right Acceleration vs Up Acceleration on series 7 to 9
Right Acceleration vs Up Acceleration on series 10 to 12
Up Acceleration vs Up Acceleration
Up Acceleration vs Up Acceleration on series 1 to 3
Up Acceleration vs Up Acceleration on series 4 to 6
Up Acceleration vs Up Acceleration on series 7 to 9
Up Acceleration vs Up Acceleration on series 10 to 12
Forward Velocity vs Up Acceleration
Forward Velocity vs Up Acceleration on series 1 to 3
Forward Velocity vs Up Acceleration on series 4 to 6
Forward Velocity vs Up Acceleration on series 7 to 9
Forward Velocity vs Up Acceleration on series 10 to 12
Right Velocity vs Up Acceleration
Right Velocity vs Up Acceleration on series 1 to 3
Right Velocity vs Up Acceleration on series 4 to 6
Right Velocity vs Up Acceleration on series 7 to 9
Right Velocity vs Up Acceleration on series 10 to 12
Up Velocity vs Up Acceleration
Up Velocity vs Up Acceleration on series 1 to 3
Up Velocity vs Up Acceleration on series 4 to 6
Up Velocity vs Up Acceleration on series 7 to 9
Up Velocity vs Up Acceleration on series 10 to 12
Pitch Angular Acceleration vs Up Acceleration
Pitch Angular Acceleration vs Up Acceleration on series 1 to 3
Pitch Angular Acceleration vs Up Acceleration on series 4 to 6
Pitch Angular Acceleration vs Up Acceleration on series 7 to 9
Pitch Angular Acceleration vs Up Acceleration on series 10 to 12
Yaw Angular Acceleration vs Up Acceleration
Yaw Angular Acceleration vs Up Acceleration on series 1 to 3
Yaw Angular Acceleration vs Up Acceleration on series 4 to 6
Yaw Angular Acceleration vs Up Acceleration on series 7 to 9
Yaw Angular Acceleration vs Up Acceleration on series 10 to 12
Roll Angular Acceleration vs Up Acceleration
Roll Angular Acceleration vs Up Acceleration on series 1 to 3
Roll Angular Acceleration vs Up Acceleration on series 4 to 6
Roll Angular Acceleration vs Up Acceleration on series 7 to 9
Roll Angular Acceleration vs Up Acceleration on series 10 to 12
Pitch Angular Velocity vs Up Acceleration
Pitch Angular Velocity vs Up Acceleration on series 1 to 3
Pitch Angular Velocity vs Up Acceleration on series 4 to 6
Pitch Angular Velocity vs Up Acceleration on series 7 to 9
Pitch Angular Velocity vs Up Acceleration on series 10 to 12
Yaw Angular Velocity vs Up Acceleration
Yaw Angular Velocity vs Up Acceleration on series 1 to 3
Yaw Angular Velocity vs Up Acceleration on series 4 to 6
Yaw Angular Velocity vs Up Acceleration on series 7 to 9
Yaw Angular Velocity vs Up Acceleration on series 10 to 12

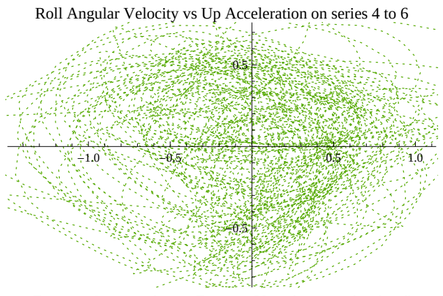
Roll Angular Velocity vs Up Acceleration



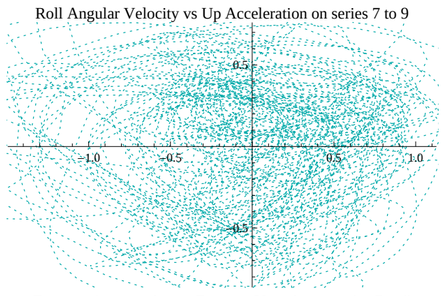
Roll Angular Velocity vs Up Acceleration on series 1 to 3



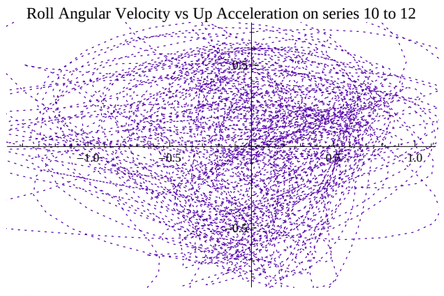
Roll Angular Velocity vs Up Acceleration on series 4 to 6



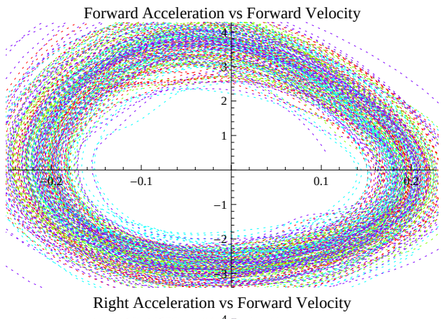
Roll Angular Velocity vs Up Acceleration on series 7 to 9



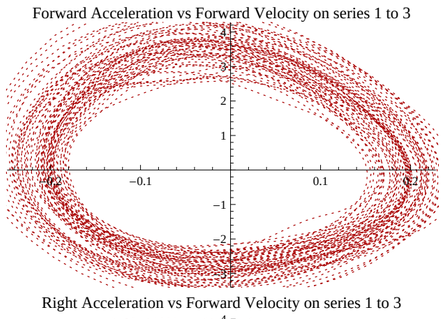
Roll Angular Velocity vs Up Acceleration on series 10 to 12



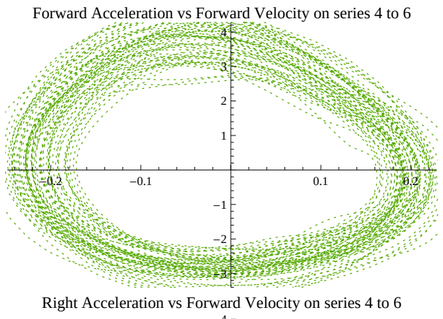
Forward Acceleration vs Forward Velocity



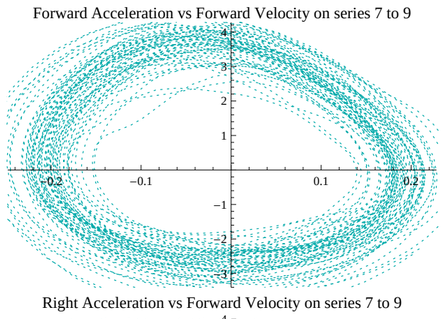
Forward Acceleration vs Forward Velocity on series 1 to 3



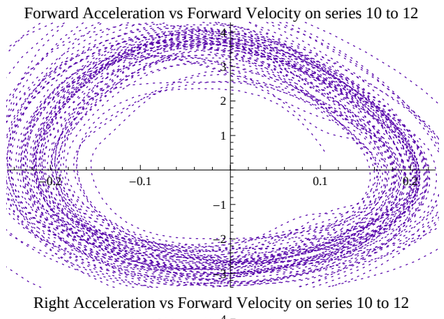
Forward Acceleration vs Forward Velocity on series 4 to 6



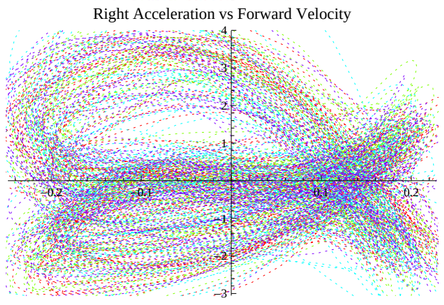
Forward Acceleration vs Forward Velocity on series 7 to 9



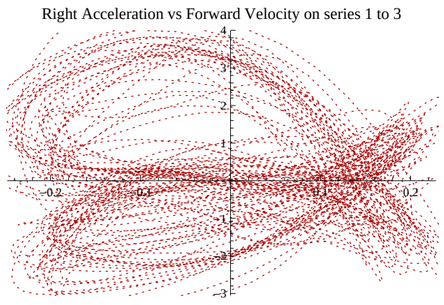
Forward Acceleration vs Forward Velocity on series 10 to 12



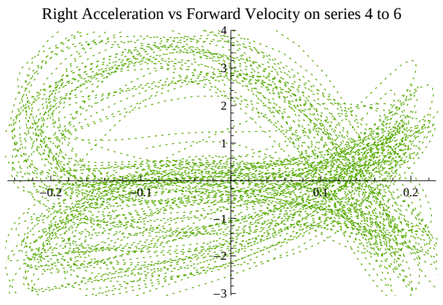
Right Acceleration vs Forward Velocity



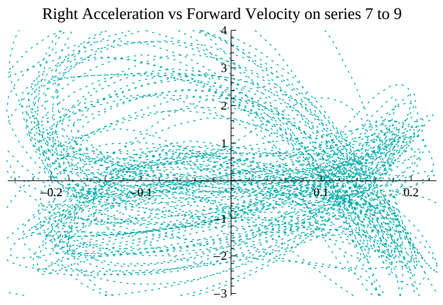
Right Acceleration vs Forward Velocity on series 1 to 3



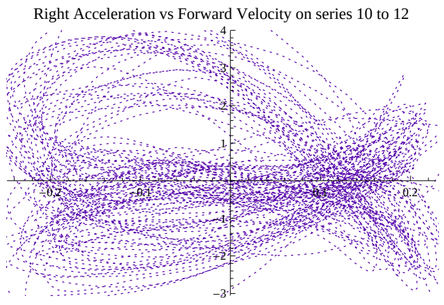
Right Acceleration vs Forward Velocity on series 4 to 6



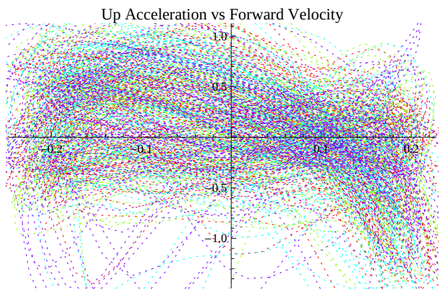
Right Acceleration vs Forward Velocity on series 7 to 9



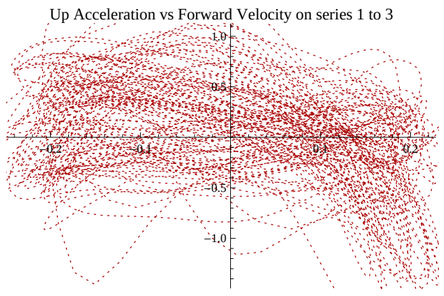
Right Acceleration vs Forward Velocity on series 10 to 12



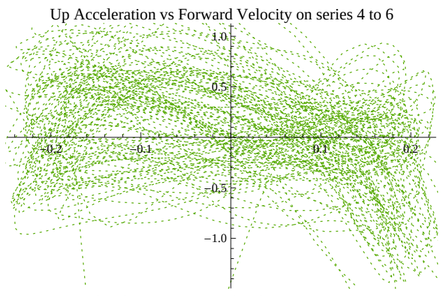
Up Acceleration vs Forward Velocity



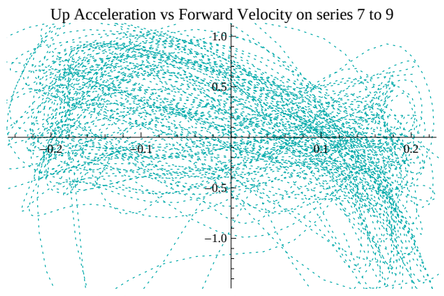
Up Acceleration vs Forward Velocity on series 1 to 3



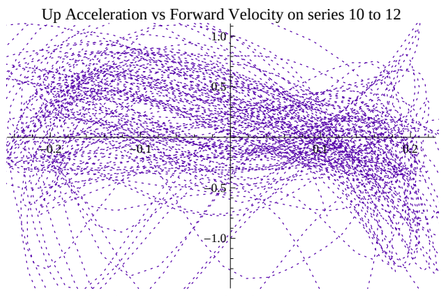
Up Acceleration vs Forward Velocity on series 4 to 6



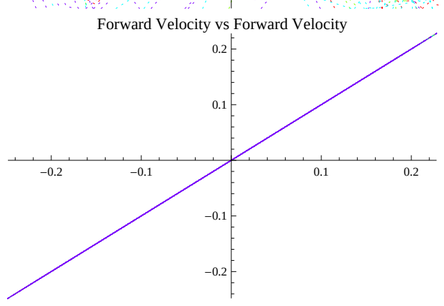
Up Acceleration vs Forward Velocity on series 7 to 9



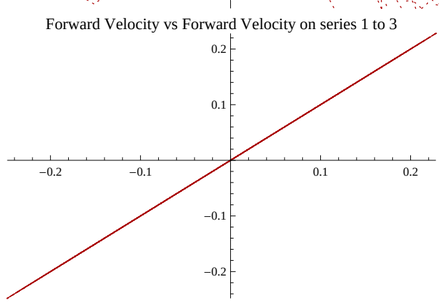
Up Acceleration vs Forward Velocity on series 10 to 12



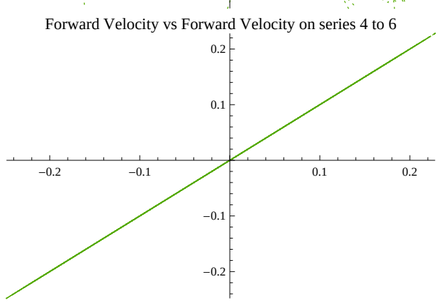
Forward Velocity vs Forward Velocity



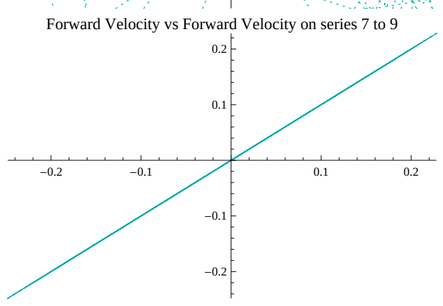
Forward Velocity vs Forward Velocity on series 1 to 3



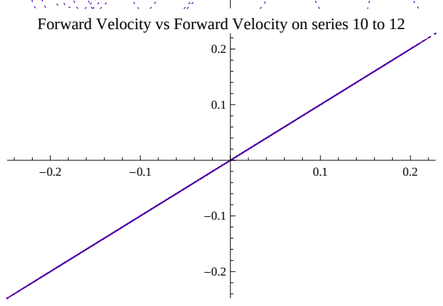
Forward Velocity vs Forward Velocity on series 4 to 6



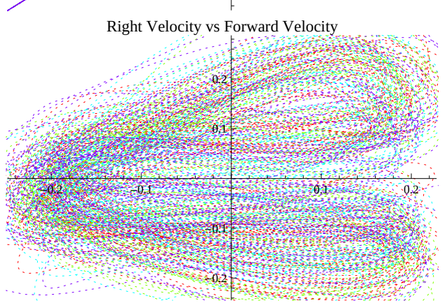
Forward Velocity vs Forward Velocity on series 7 to 9



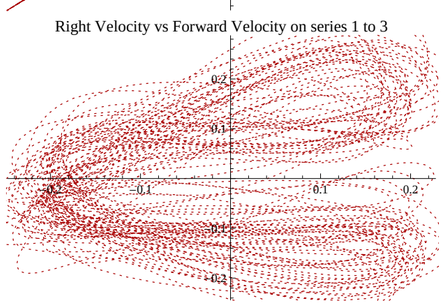
Forward Velocity vs Forward Velocity on series 10 to 12



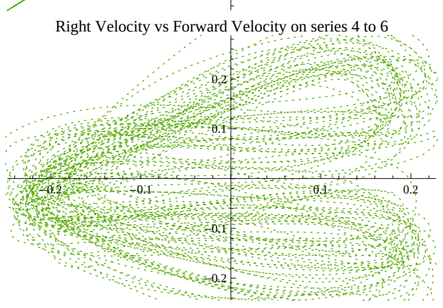
Right Velocity vs Forward Velocity



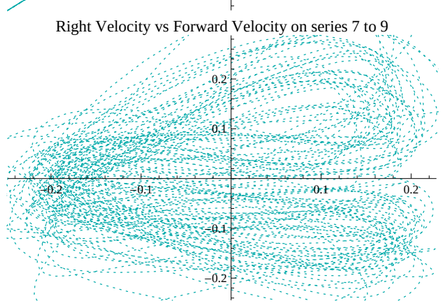
Right Velocity vs Forward Velocity on series 1 to 3



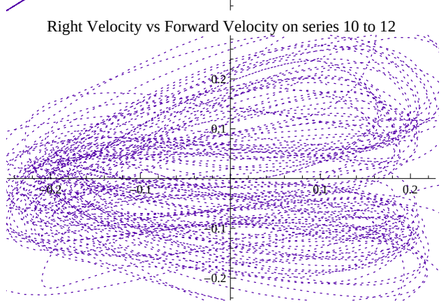
Right Velocity vs Forward Velocity on series 4 to 6



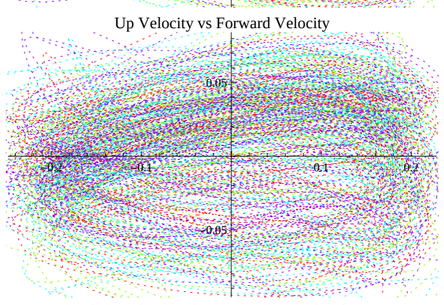
Right Velocity vs Forward Velocity on series 7 to 9



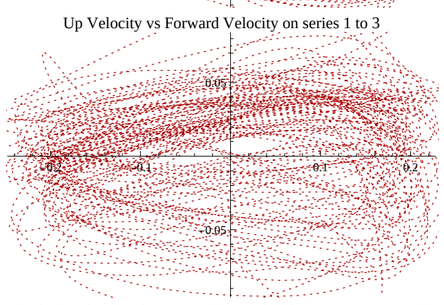
Right Velocity vs Forward Velocity on series 10 to 12



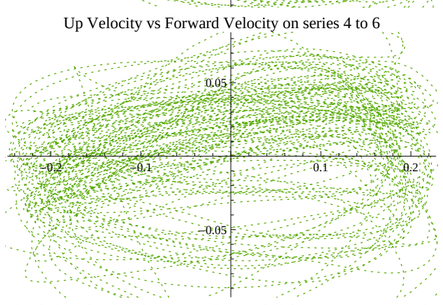
Up Velocity vs Forward Velocity



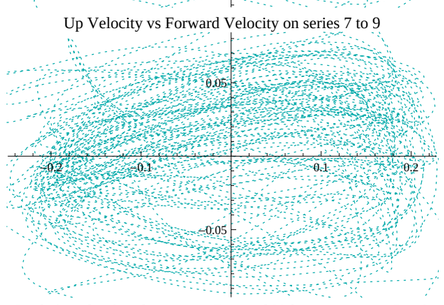
Up Velocity vs Forward Velocity on series 1 to 3



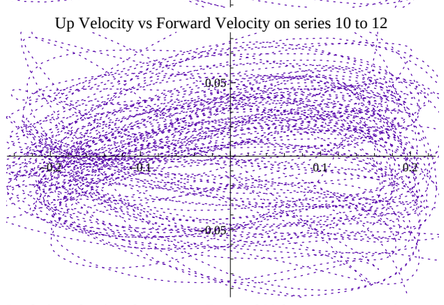
Up Velocity vs Forward Velocity on series 4 to 6



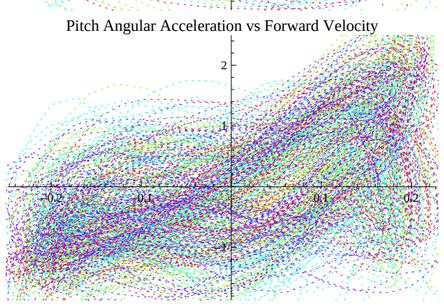
Up Velocity vs Forward Velocity on series 7 to 9



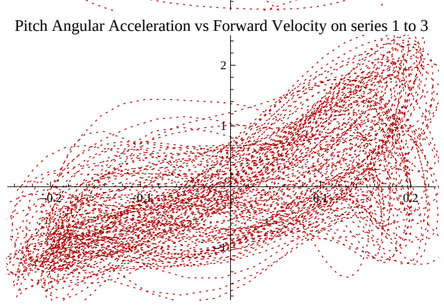
Up Velocity vs Forward Velocity on series 10 to 12



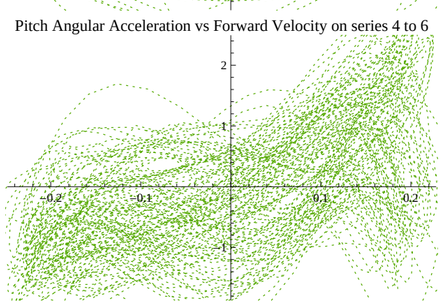
Pitch Angular Acceleration vs Forward Velocity



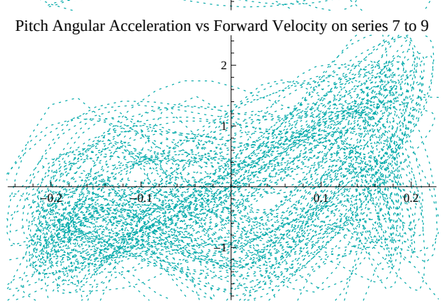
Pitch Angular Acceleration vs Forward Velocity on series 1 to 3



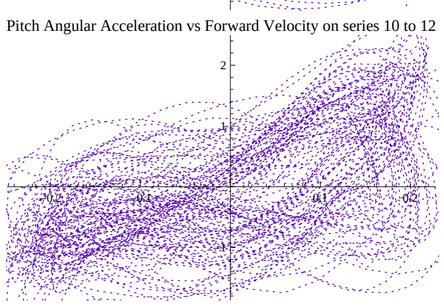
Pitch Angular Acceleration vs Forward Velocity on series 4 to 6



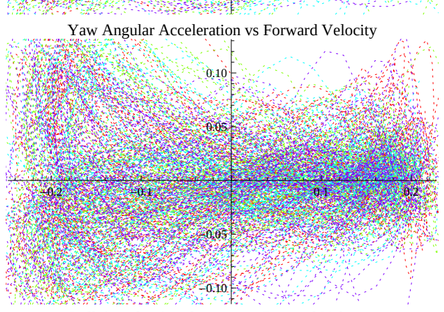
Pitch Angular Acceleration vs Forward Velocity on series 7 to 9



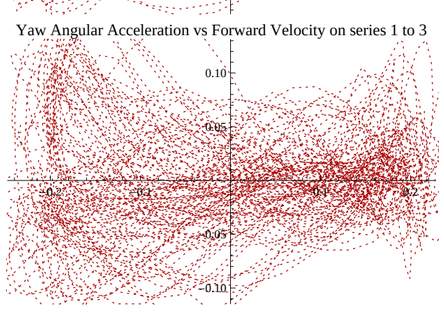
Pitch Angular Acceleration vs Forward Velocity on series 10 to 12



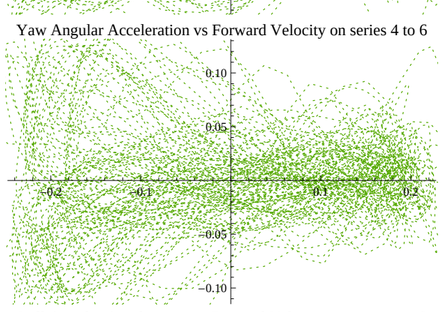
Yaw Angular Acceleration vs Forward Velocity



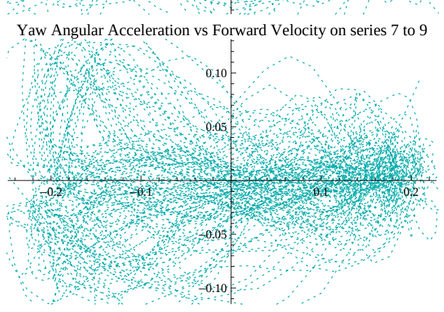
Yaw Angular Acceleration vs Forward Velocity on series 1 to 3



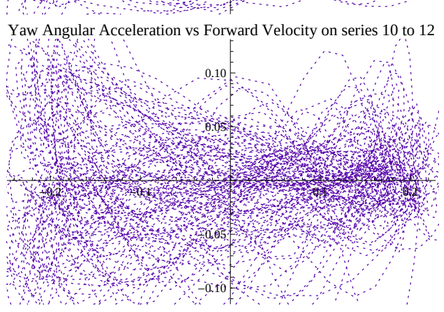
Yaw Angular Acceleration vs Forward Velocity on series 4 to 6



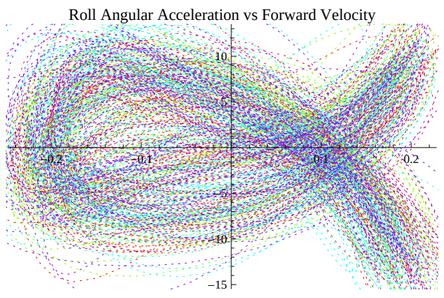
Yaw Angular Acceleration vs Forward Velocity on series 7 to 9



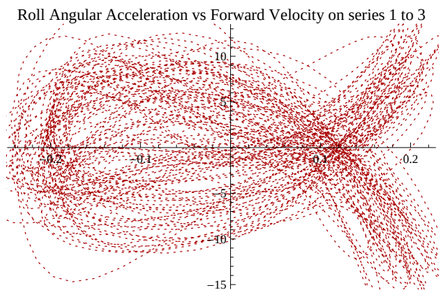
Yaw Angular Acceleration vs Forward Velocity on series 10 to 12



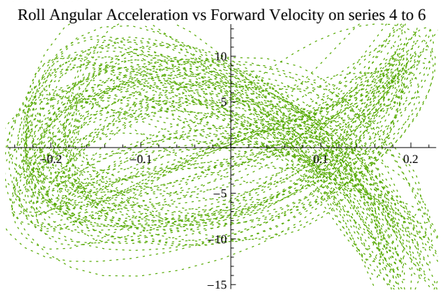
Roll Angular Acceleration vs Forward Velocity



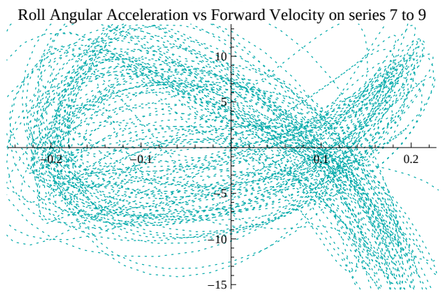
Roll Angular Acceleration vs Forward Velocity on series 1 to 3



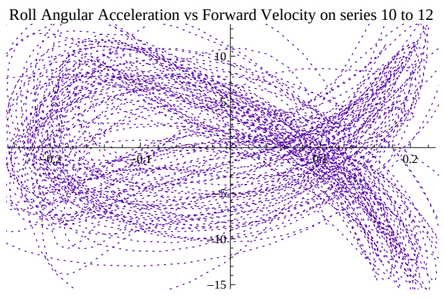
Roll Angular Acceleration vs Forward Velocity on series 4 to 6



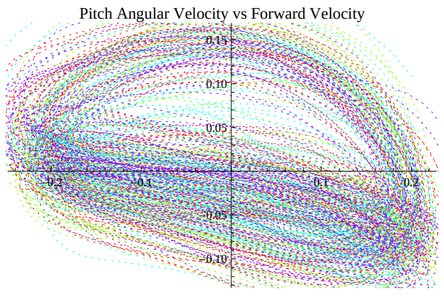
Roll Angular Acceleration vs Forward Velocity on series 7 to 9



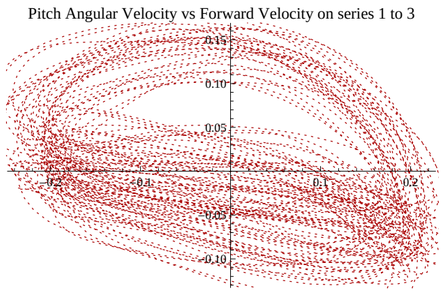
Roll Angular Acceleration vs Forward Velocity on series 10 to 12



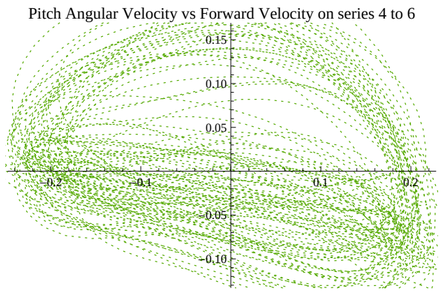
Pitch Angular Velocity vs Forward Velocity



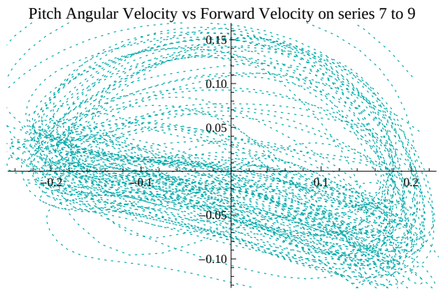
Pitch Angular Velocity vs Forward Velocity on series 1 to 3



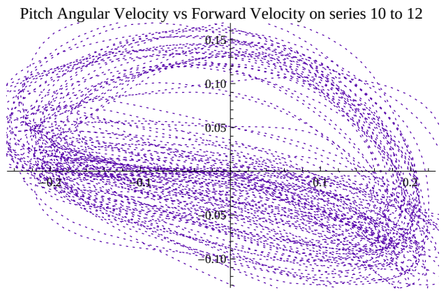
Pitch Angular Velocity vs Forward Velocity on series 4 to 6



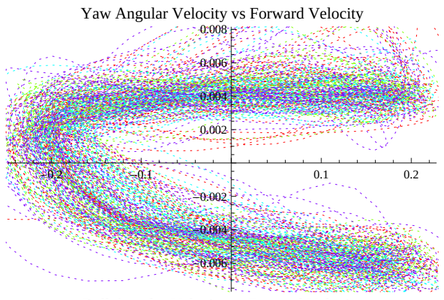
Pitch Angular Velocity vs Forward Velocity on series 7 to 9



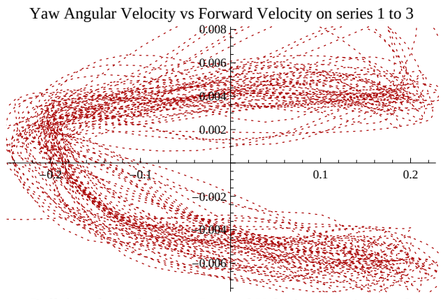
Pitch Angular Velocity vs Forward Velocity on series 10 to 12



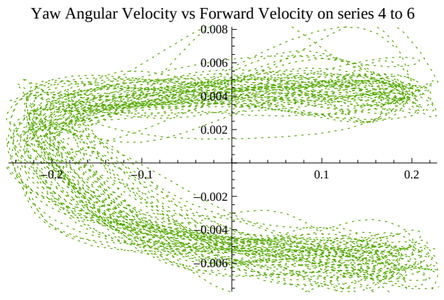
Yaw Angular Velocity vs Forward Velocity



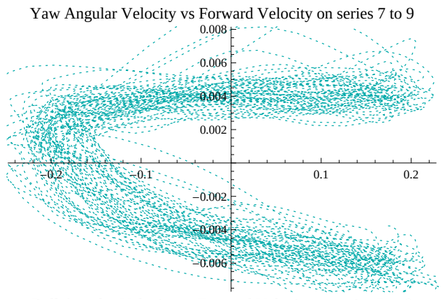
Yaw Angular Velocity vs Forward Velocity on series 1 to 3



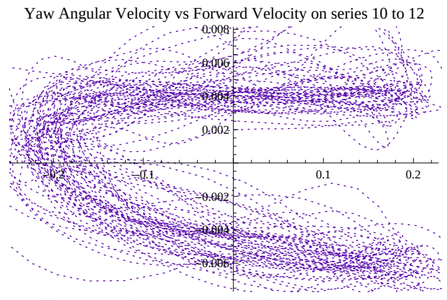
Yaw Angular Velocity vs Forward Velocity on series 4 to 6



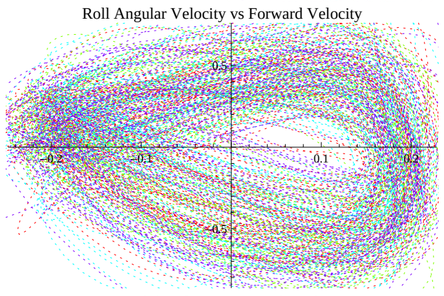
Yaw Angular Velocity vs Forward Velocity on series 7 to 9



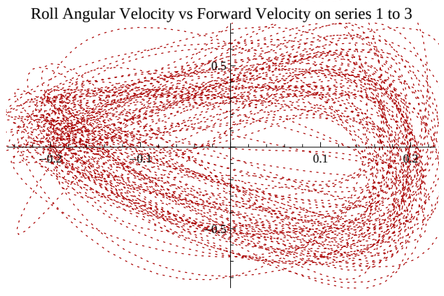
Yaw Angular Velocity vs Forward Velocity on series 10 to 12



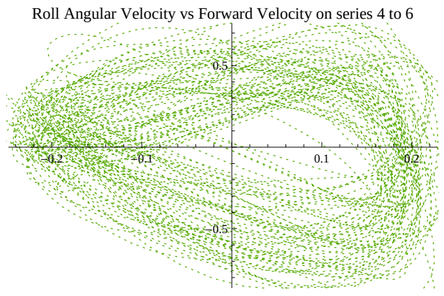
Roll Angular Velocity vs Forward Velocity



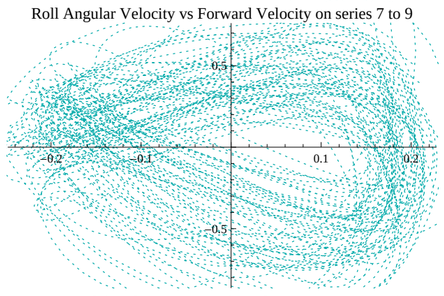
Roll Angular Velocity vs Forward Velocity on series 1 to 3



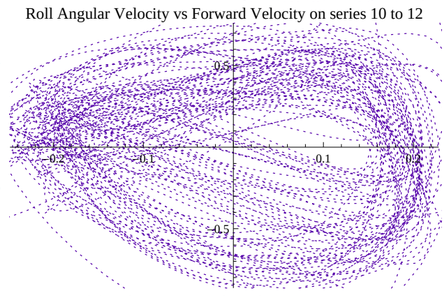
Roll Angular Velocity vs Forward Velocity on series 4 to 6



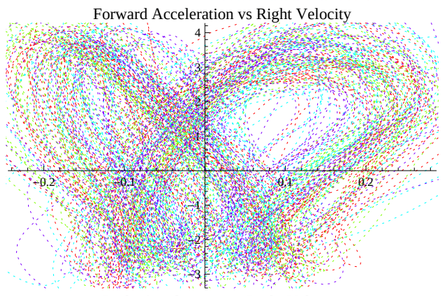
Roll Angular Velocity vs Forward Velocity on series 7 to 9



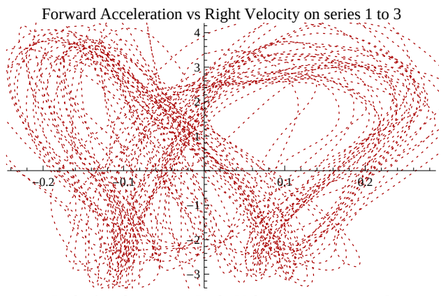
Roll Angular Velocity vs Forward Velocity on series 10 to 12



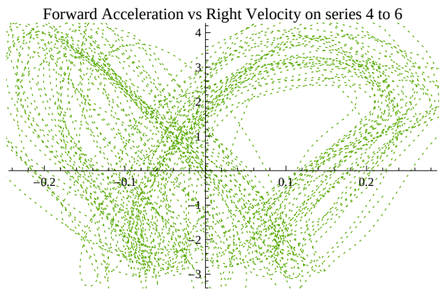
Forward Acceleration vs Right Velocity



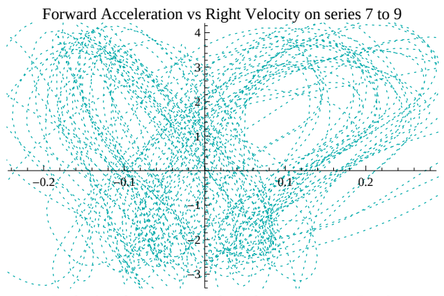
Forward Acceleration vs Right Velocity on series 1 to 3



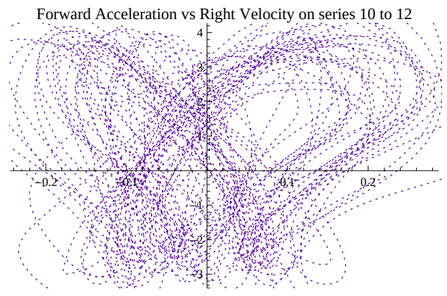
Forward Acceleration vs Right Velocity on series 4 to 6



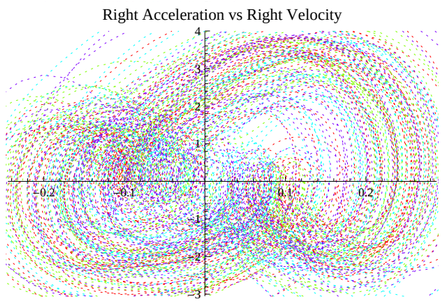
Forward Acceleration vs Right Velocity on series 7 to 9



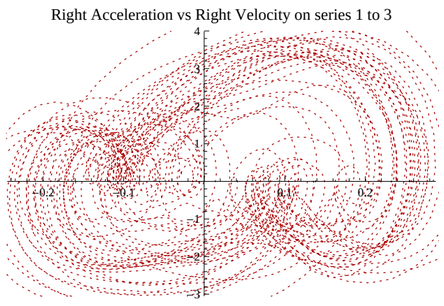
Forward Acceleration vs Right Velocity on series 10 to 12



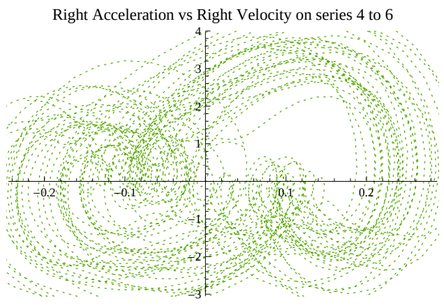
Right Acceleration vs Right Velocity



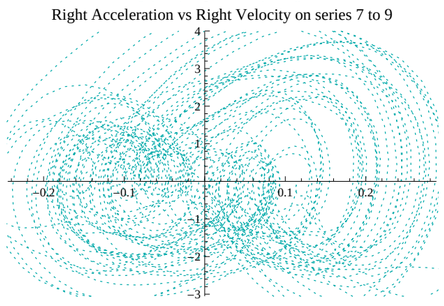
Right Acceleration vs Right Velocity on series 1 to 3



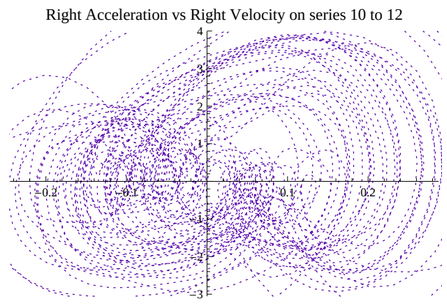
Right Acceleration vs Right Velocity on series 4 to 6



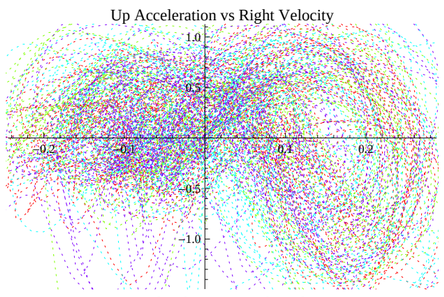
Right Acceleration vs Right Velocity on series 7 to 9



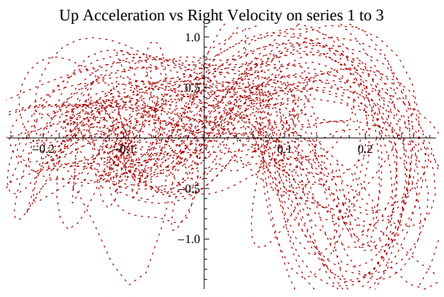
Right Acceleration vs Right Velocity on series 10 to 12



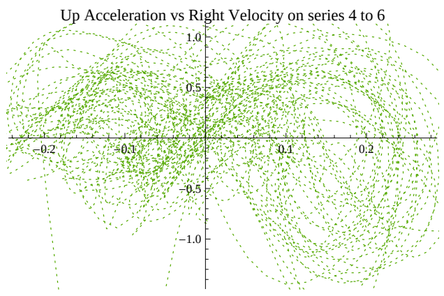
Up Acceleration vs Right Velocity



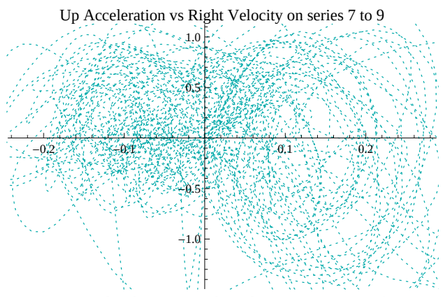
Up Acceleration vs Right Velocity on series 1 to 3



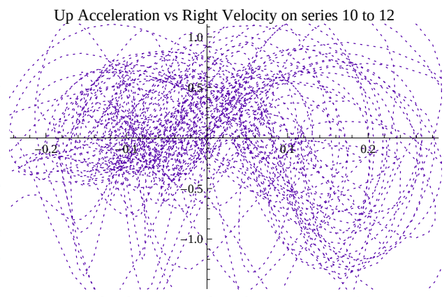
Up Acceleration vs Right Velocity on series 4 to 6



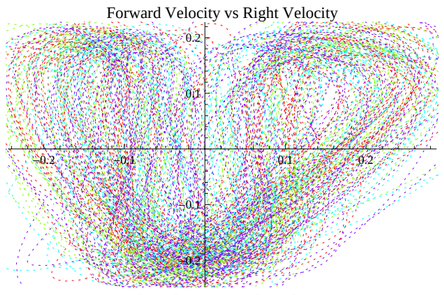
Up Acceleration vs Right Velocity on series 7 to 9



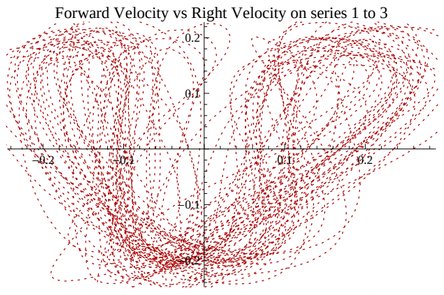
Up Acceleration vs Right Velocity on series 10 to 12



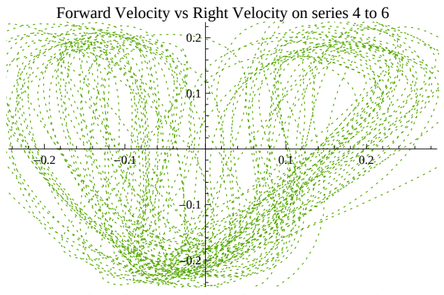
Forward Velocity vs Right Velocity



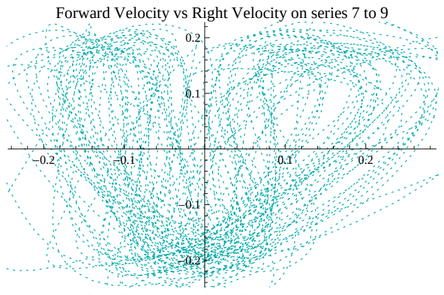
Forward Velocity vs Right Velocity on series 1 to 3



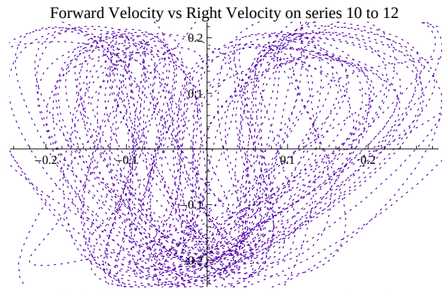
Forward Velocity vs Right Velocity on series 4 to 6



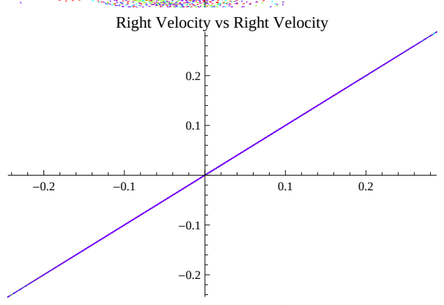
Forward Velocity vs Right Velocity on series 7 to 9



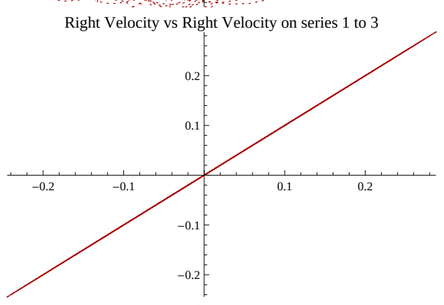
Forward Velocity vs Right Velocity on series 10 to 12



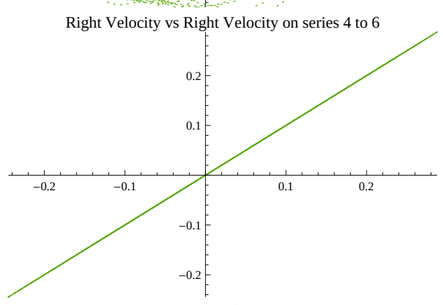
Right Velocity vs Right Velocity



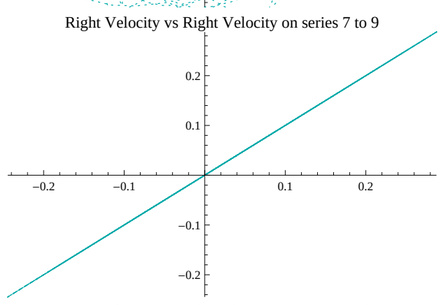
Right Velocity vs Right Velocity on series 1 to 3



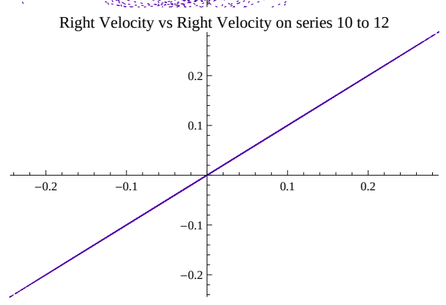
Right Velocity vs Right Velocity on series 4 to 6



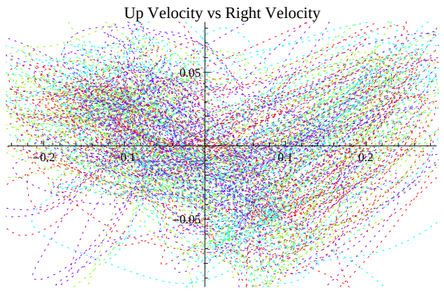
Right Velocity vs Right Velocity on series 7 to 9



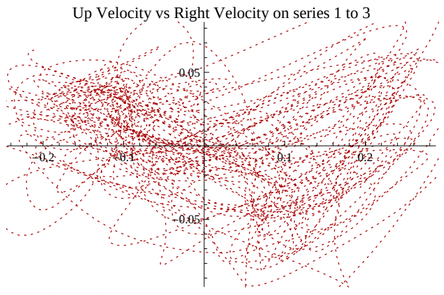
Right Velocity vs Right Velocity on series 10 to 12



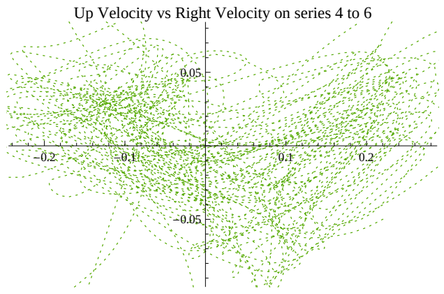
Up Velocity vs Right Velocity



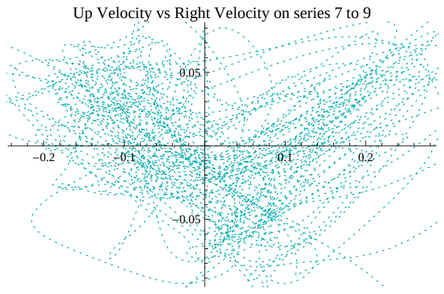
Up Velocity vs Right Velocity on series 1 to 3



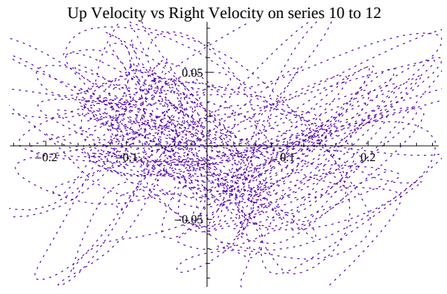
Up Velocity vs Right Velocity on series 4 to 6



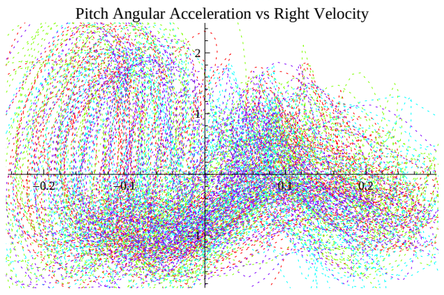
Up Velocity vs Right Velocity on series 7 to 9



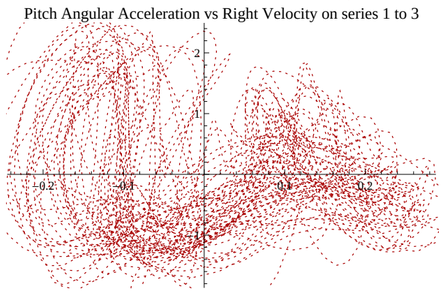
Up Velocity vs Right Velocity on series 10 to 12



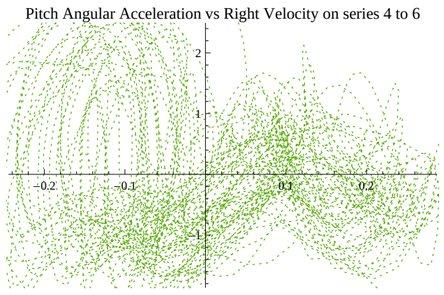
Pitch Angular Acceleration vs Right Velocity



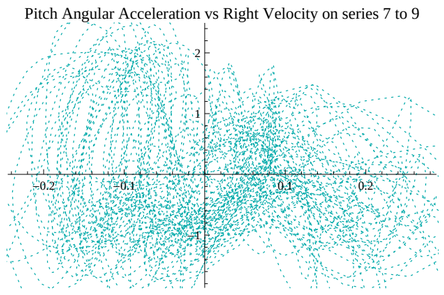
Pitch Angular Acceleration vs Right Velocity on series 1 to 3



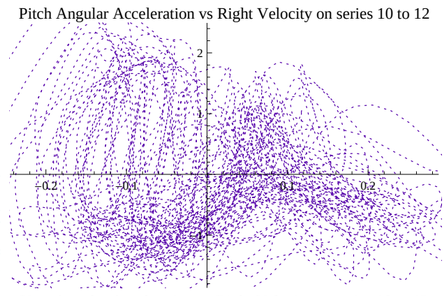
Pitch Angular Acceleration vs Right Velocity on series 4 to 6



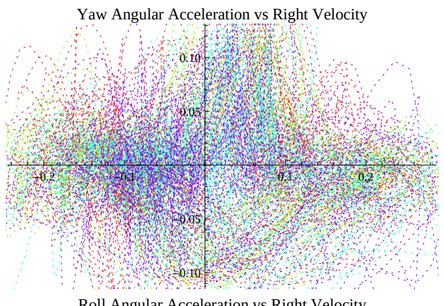
Pitch Angular Acceleration vs Right Velocity on series 7 to 9



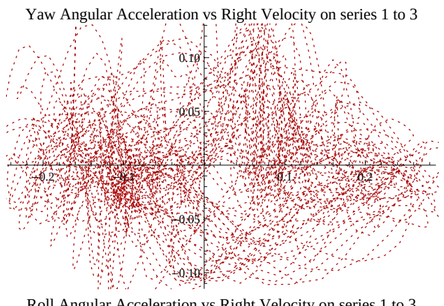
Pitch Angular Acceleration vs Right Velocity on series 10 to 12



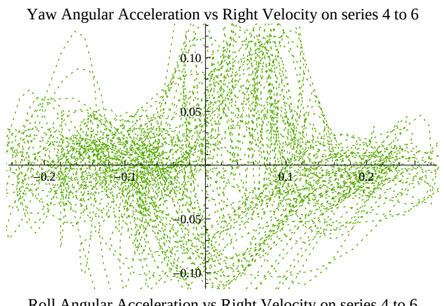
Yaw Angular Acceleration vs Right Velocity



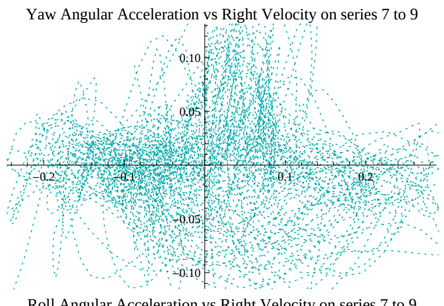
Yaw Angular Acceleration vs Right Velocity on series 1 to 3



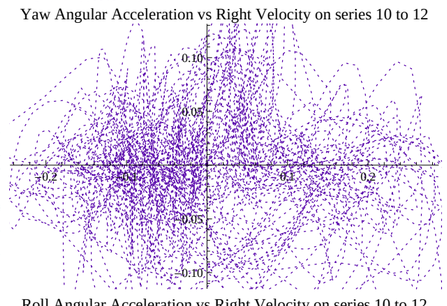
Yaw Angular Acceleration vs Right Velocity on series 4 to 6



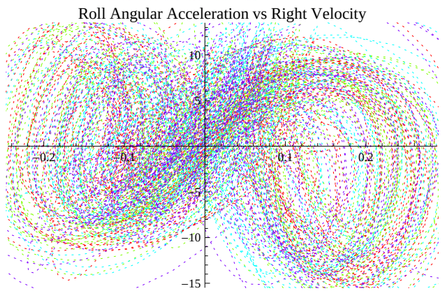
Yaw Angular Acceleration vs Right Velocity on series 7 to 9



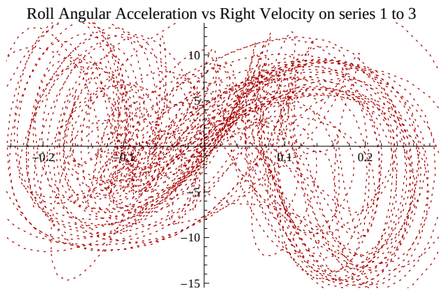
Yaw Angular Acceleration vs Right Velocity on series 10 to 12



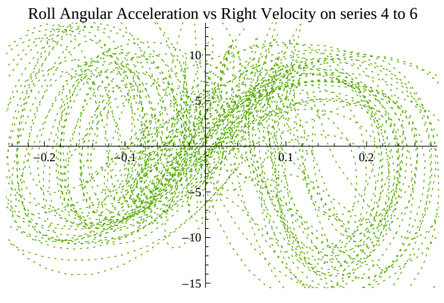
Roll Angular Acceleration vs Right Velocity



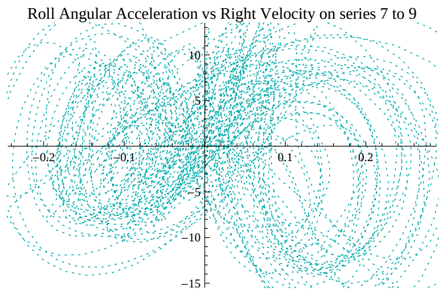
Roll Angular Acceleration vs Right Velocity on series 1 to 3



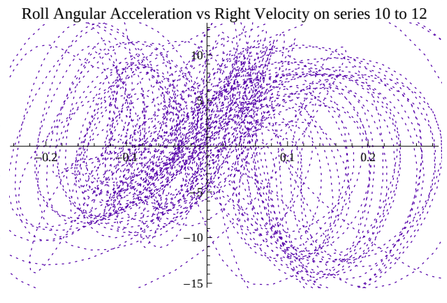
Roll Angular Acceleration vs Right Velocity on series 4 to 6



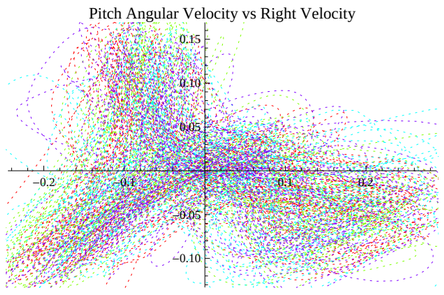
Roll Angular Acceleration vs Right Velocity on series 7 to 9



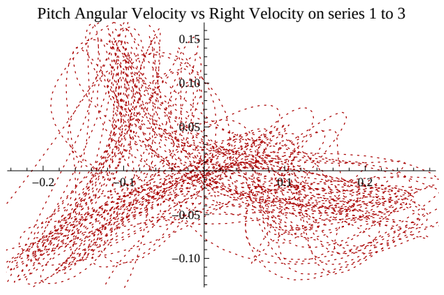
Roll Angular Acceleration vs Right Velocity on series 10 to 12



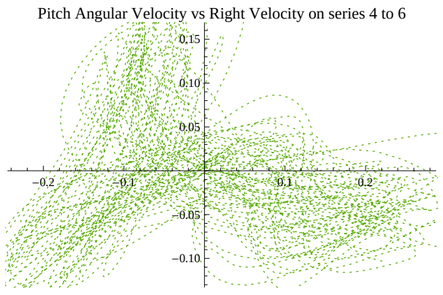
Pitch Angular Velocity vs Right Velocity



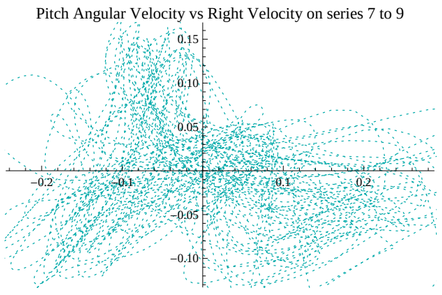
Pitch Angular Velocity vs Right Velocity on series 1 to 3



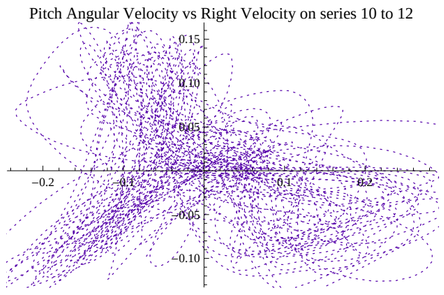
Pitch Angular Velocity vs Right Velocity on series 4 to 6



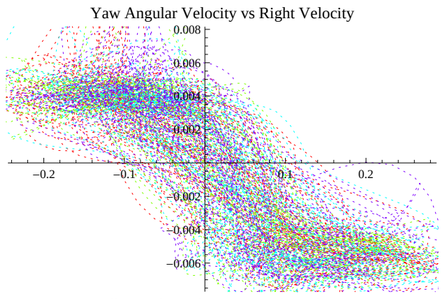
Pitch Angular Velocity vs Right Velocity on series 7 to 9



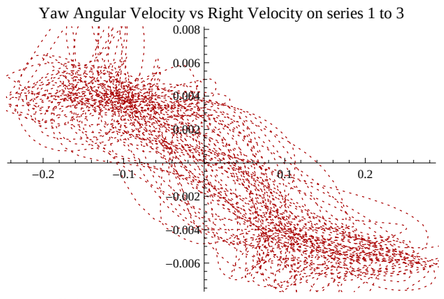
Pitch Angular Velocity vs Right Velocity on series 10 to 12



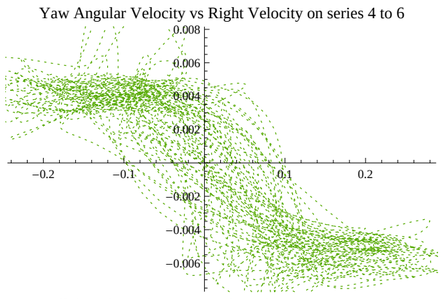
Yaw Angular Velocity vs Right Velocity



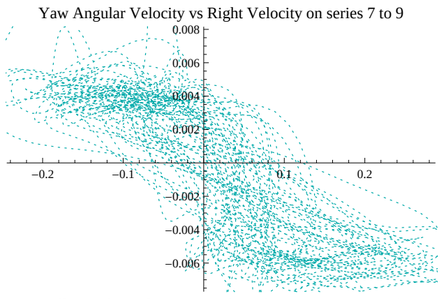
Yaw Angular Velocity vs Right Velocity on series 1 to 3



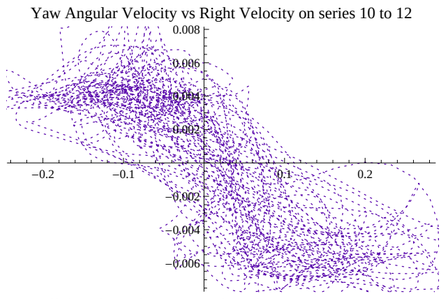
Yaw Angular Velocity vs Right Velocity on series 4 to 6



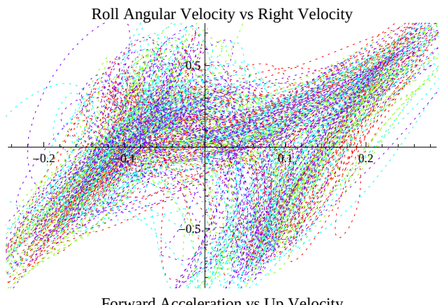
Yaw Angular Velocity vs Right Velocity on series 7 to 9



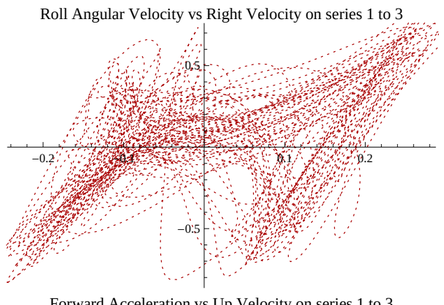
Yaw Angular Velocity vs Right Velocity on series 10 to 12



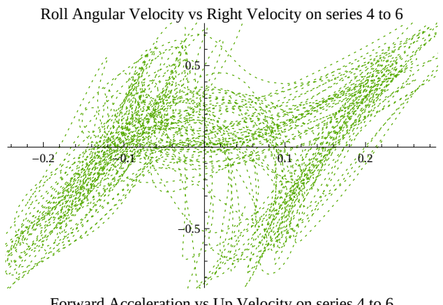
Roll Angular Velocity vs Right Velocity



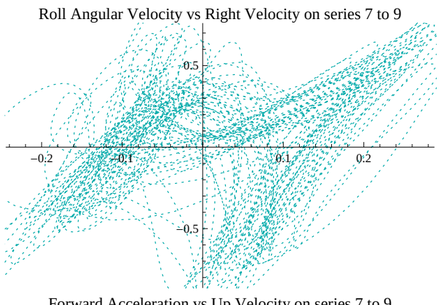
Roll Angular Velocity vs Right Velocity on series 1 to 3



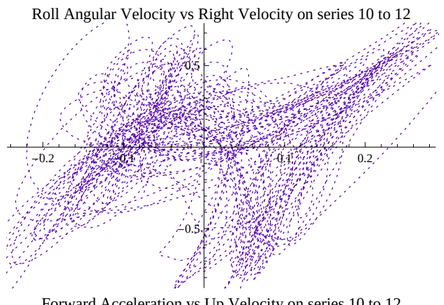
Roll Angular Velocity vs Right Velocity on series 4 to 6



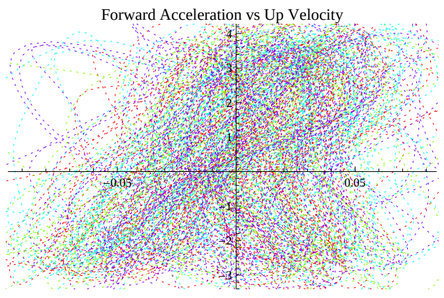
Roll Angular Velocity vs Right Velocity on series 7 to 9



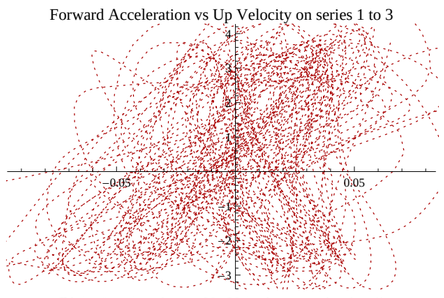
Roll Angular Velocity vs Right Velocity on series 10 to 12



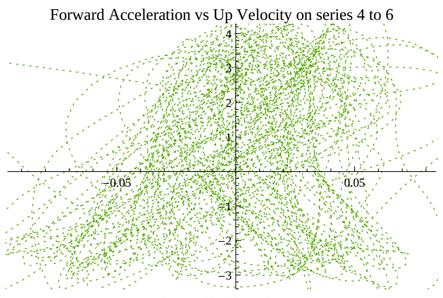
Forward Acceleration vs Up Velocity



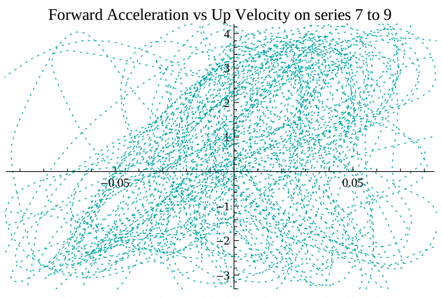
Forward Acceleration vs Up Velocity on series 1 to 3



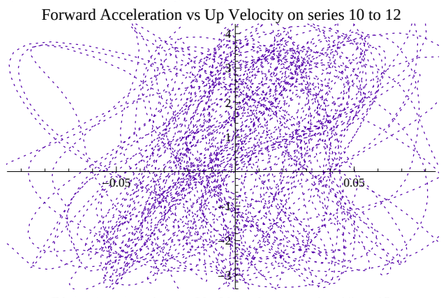
Forward Acceleration vs Up Velocity on series 4 to 6



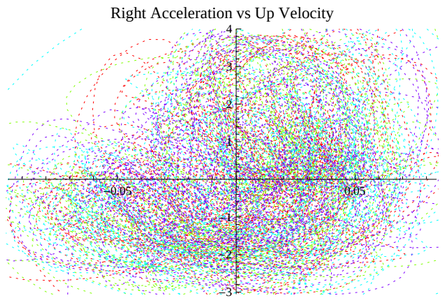
Forward Acceleration vs Up Velocity on series 7 to 9



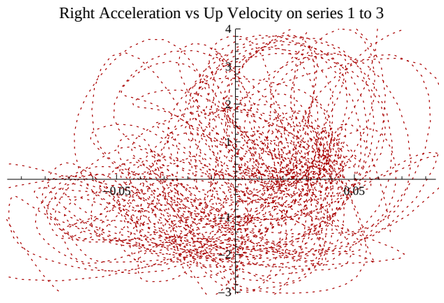
Forward Acceleration vs Up Velocity on series 10 to 12



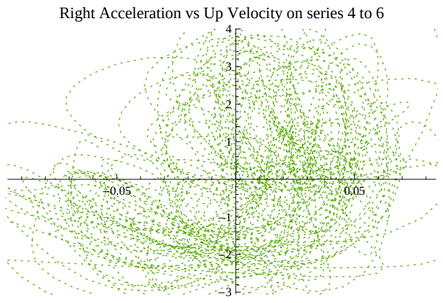
Right Acceleration vs Up Velocity



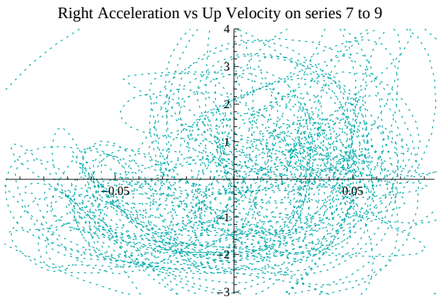
Right Acceleration vs Up Velocity on series 1 to 3



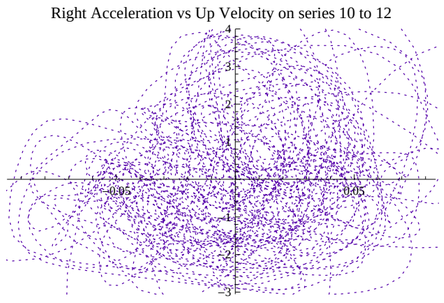
Right Acceleration vs Up Velocity on series 4 to 6



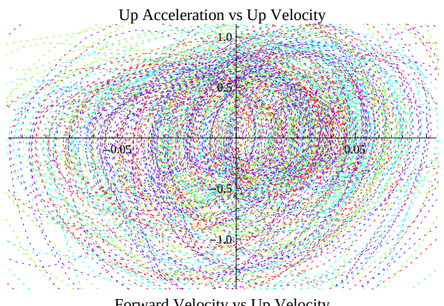
Right Acceleration vs Up Velocity on series 7 to 9



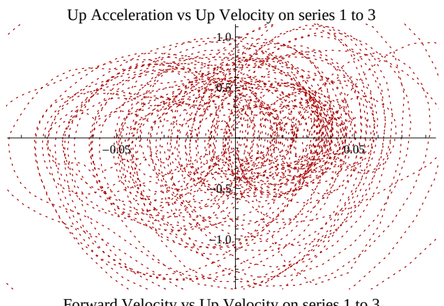
Right Acceleration vs Up Velocity on series 10 to 12



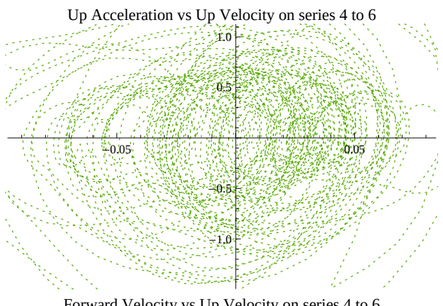
Up Acceleration vs Up Velocity



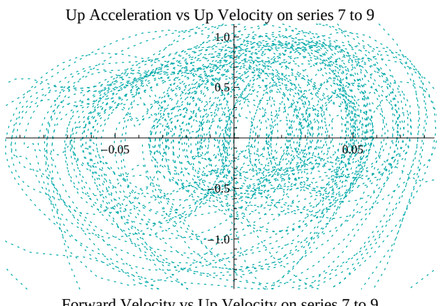
Up Acceleration vs Up Velocity on series 1 to 3



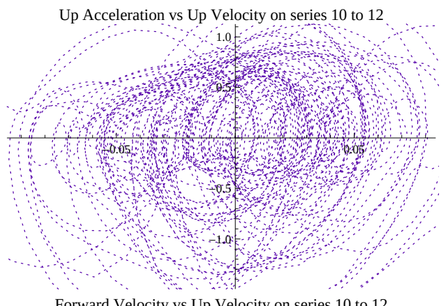
Up Acceleration vs Up Velocity on series 4 to 6



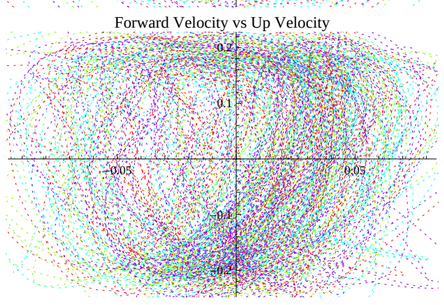
Up Acceleration vs Up Velocity on series 7 to 9



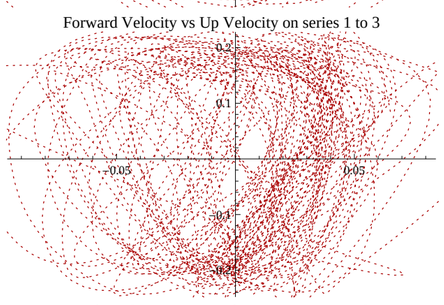
Up Acceleration vs Up Velocity on series 10 to 12



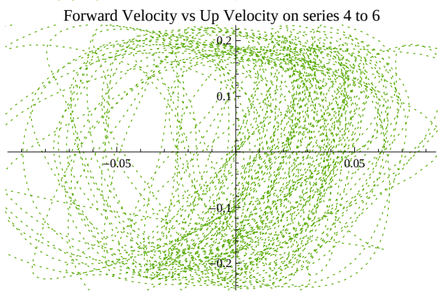
Forward Velocity vs Up Velocity



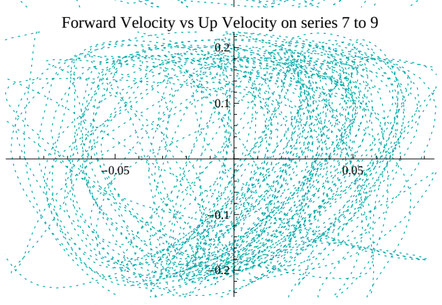
Forward Velocity vs Up Velocity on series 1 to 3



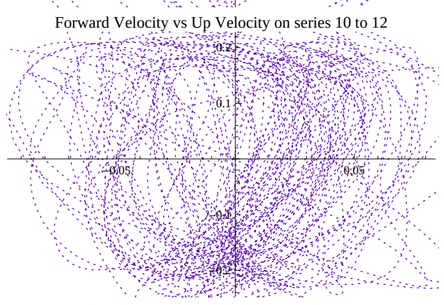
Forward Velocity vs Up Velocity on series 4 to 6



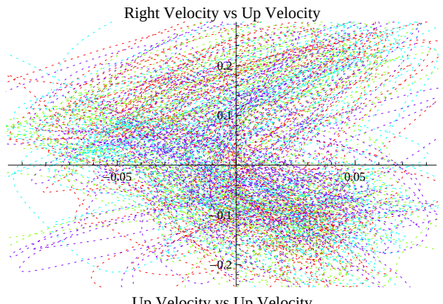
Forward Velocity vs Up Velocity on series 7 to 9



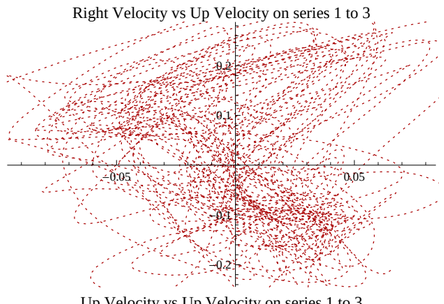
Forward Velocity vs Up Velocity on series 10 to 12



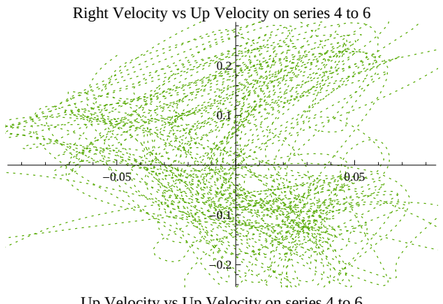
Right Velocity vs Up Velocity



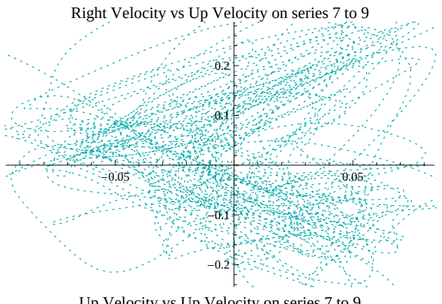
Right Velocity vs Up Velocity on series 1 to 3



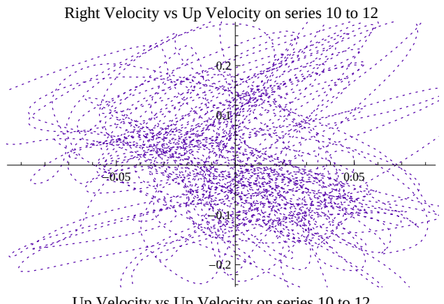
Right Velocity vs Up Velocity on series 4 to 6



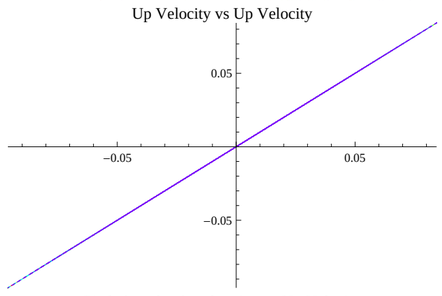
Right Velocity vs Up Velocity on series 7 to 9



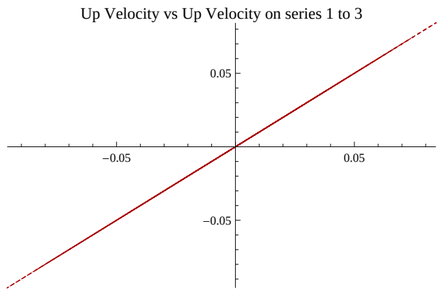
Right Velocity vs Up Velocity on series 10 to 12



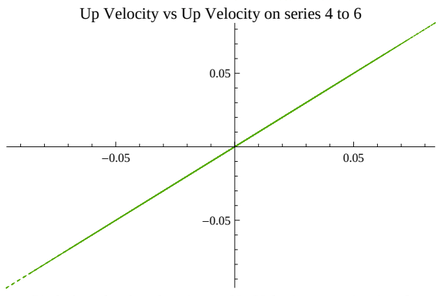
Up Velocity vs Up Velocity



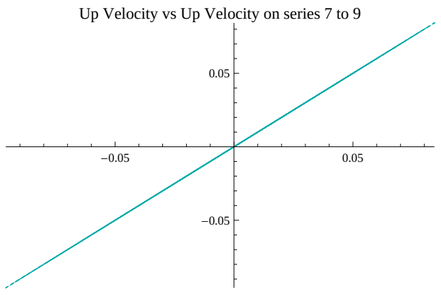
Up Velocity vs Up Velocity on series 1 to 3



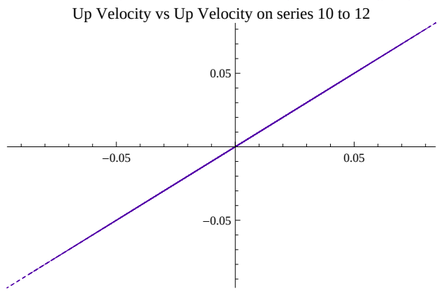
Up Velocity vs Up Velocity on series 4 to 6



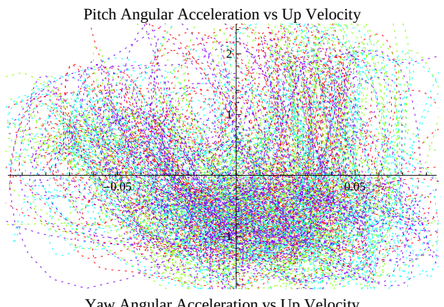
Up Velocity vs Up Velocity on series 7 to 9



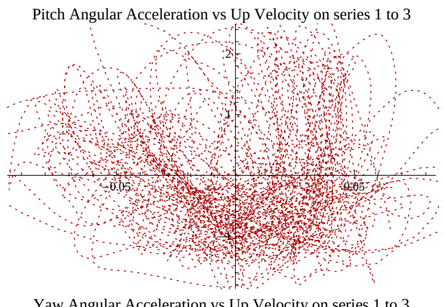
Up Velocity vs Up Velocity on series 10 to 12



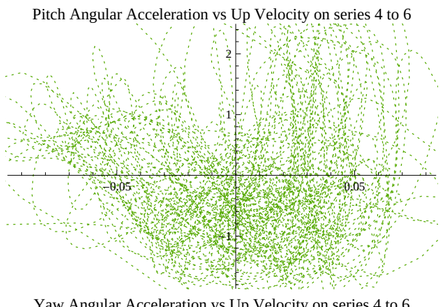
Pitch Angular Acceleration vs Up Velocity



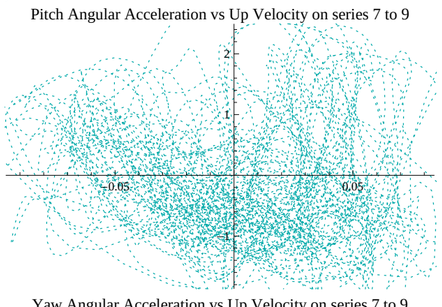
Pitch Angular Acceleration vs Up Velocity on series 1 to 3



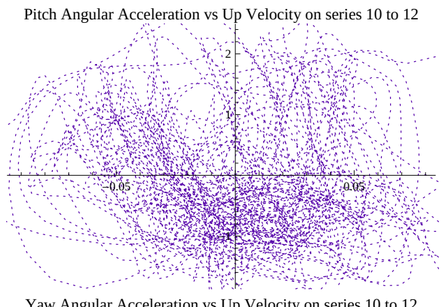
Pitch Angular Acceleration vs Up Velocity on series 4 to 6



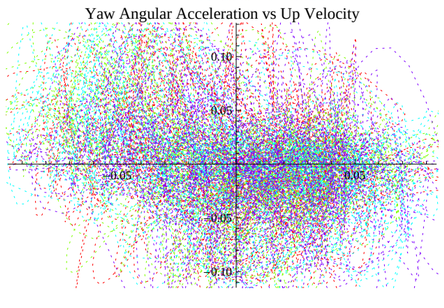
Pitch Angular Acceleration vs Up Velocity on series 7 to 9



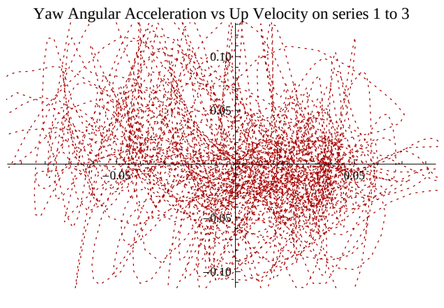
Pitch Angular Acceleration vs Up Velocity on series 10 to 12



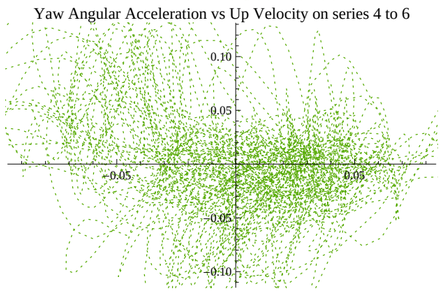
Yaw Angular Acceleration vs Up Velocity



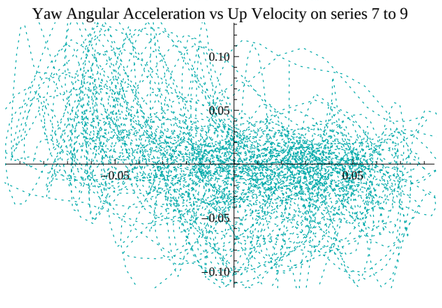
Yaw Angular Acceleration vs Up Velocity on series 1 to 3



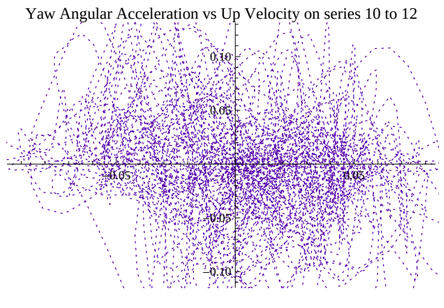
Yaw Angular Acceleration vs Up Velocity on series 4 to 6



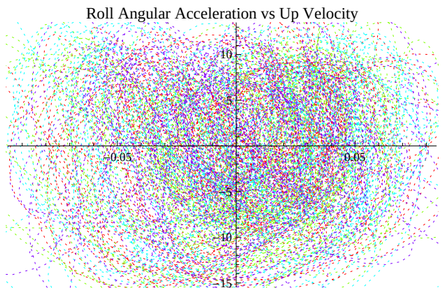
Yaw Angular Acceleration vs Up Velocity on series 7 to 9



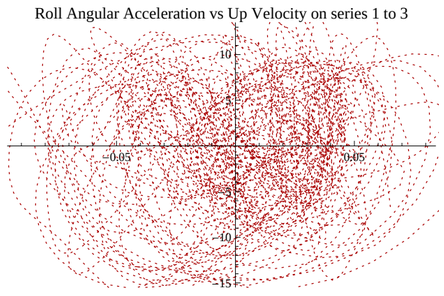
Yaw Angular Acceleration vs Up Velocity on series 10 to 12



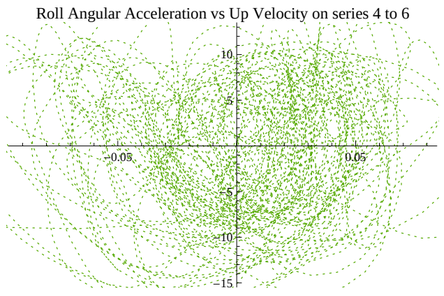
Roll Angular Acceleration vs Up Velocity



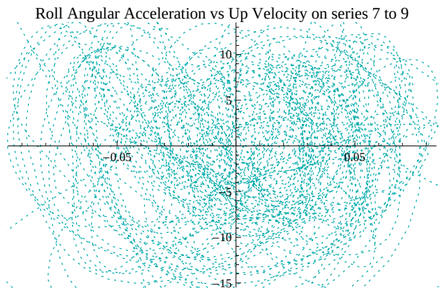
Roll Angular Acceleration vs Up Velocity on series 1 to 3



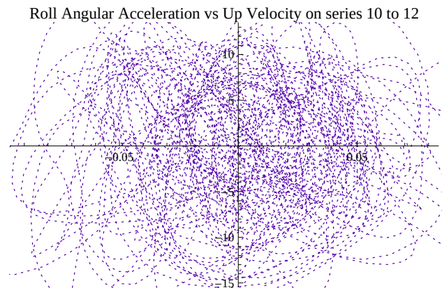
Roll Angular Acceleration vs Up Velocity on series 4 to 6



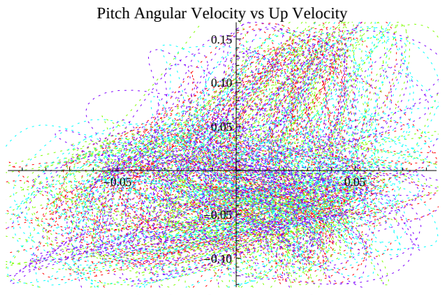
Roll Angular Acceleration vs Up Velocity on series 7 to 9



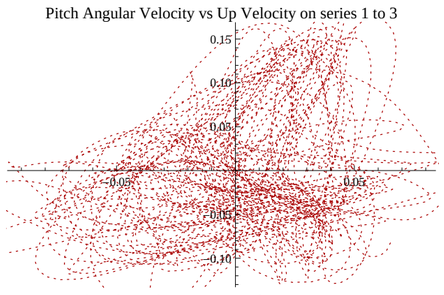
Roll Angular Acceleration vs Up Velocity on series 10 to 12



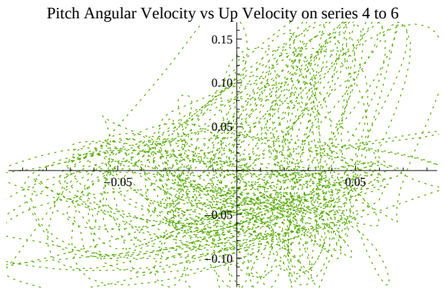
Pitch Angular Velocity vs Up Velocity



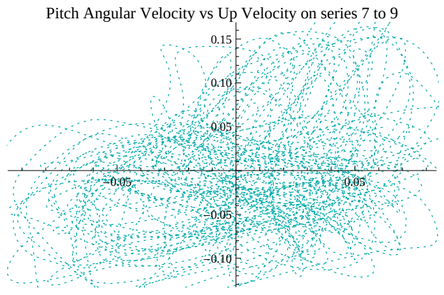
Pitch Angular Velocity vs Up Velocity on series 1 to 3



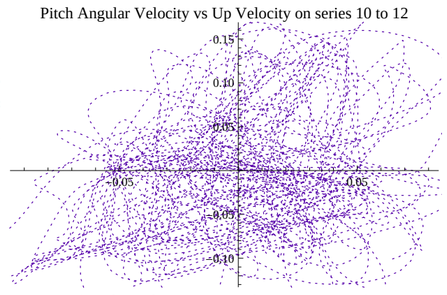
Pitch Angular Velocity vs Up Velocity on series 4 to 6



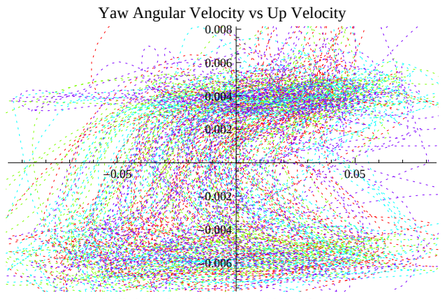
Pitch Angular Velocity vs Up Velocity on series 7 to 9



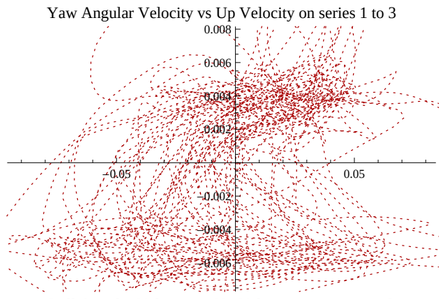
Pitch Angular Velocity vs Up Velocity on series 10 to 12



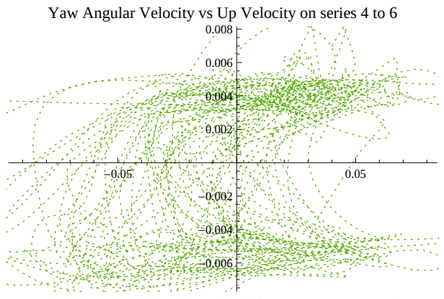
Yaw Angular Velocity vs Up Velocity



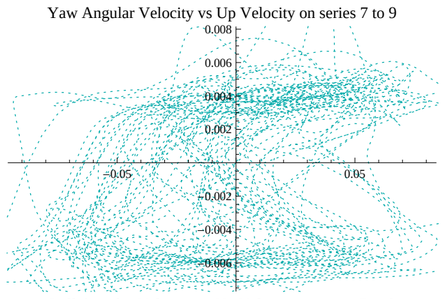
Yaw Angular Velocity vs Up Velocity on series 1 to 3



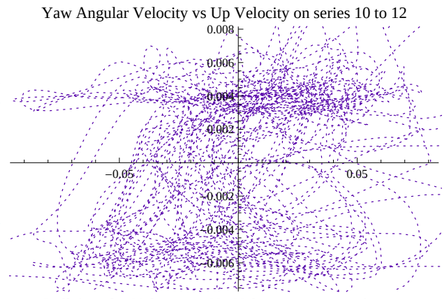
Yaw Angular Velocity vs Up Velocity on series 4 to 6



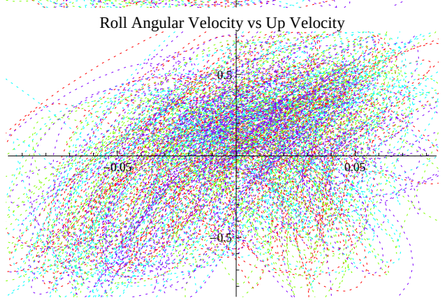
Yaw Angular Velocity vs Up Velocity on series 7 to 9



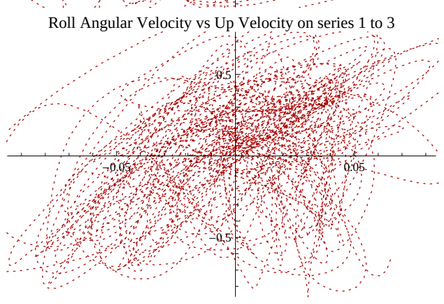
Yaw Angular Velocity vs Up Velocity on series 10 to 12



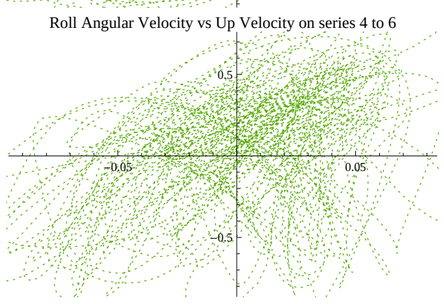
Roll Angular Velocity vs Up Velocity



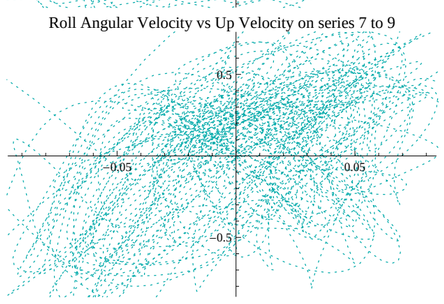
Roll Angular Velocity vs Up Velocity on series 1 to 3



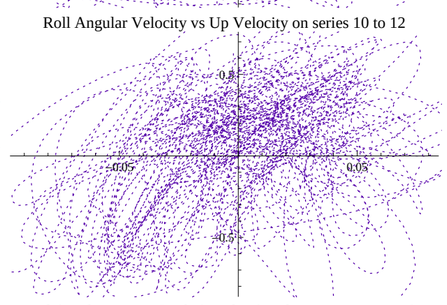
Roll Angular Velocity vs Up Velocity on series 4 to 6



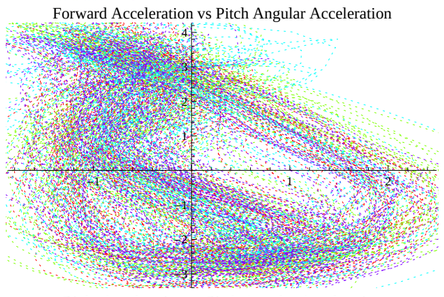
Roll Angular Velocity vs Up Velocity on series 7 to 9



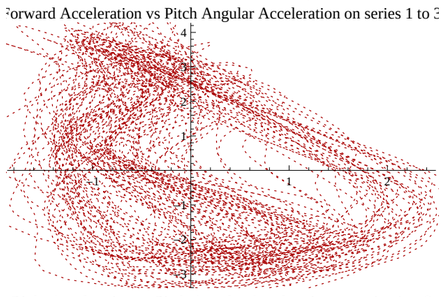
Roll Angular Velocity vs Up Velocity on series 10 to 12



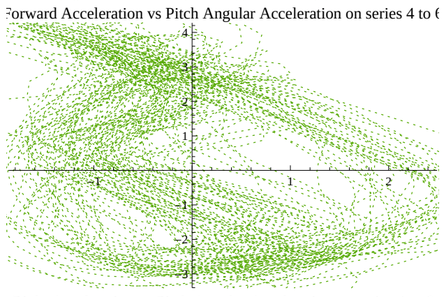
Forward Acceleration vs Pitch Angular Acceleration



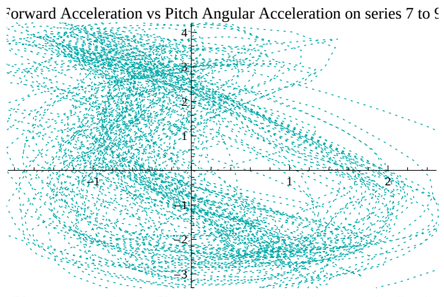
Forward Acceleration vs Pitch Angular Acceleration on series 1 to 3



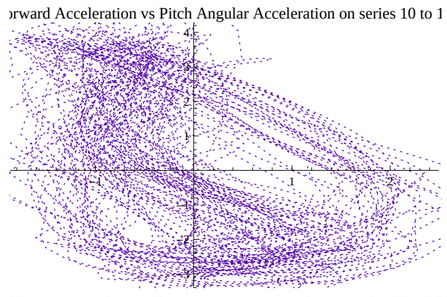
Forward Acceleration vs Pitch Angular Acceleration on series 4 to 6



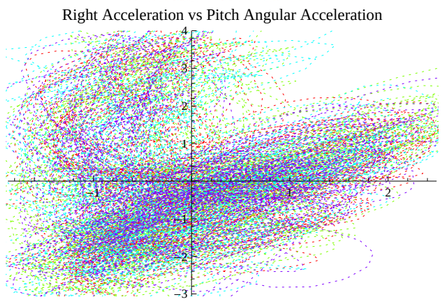
Forward Acceleration vs Pitch Angular Acceleration on series 7 to 9



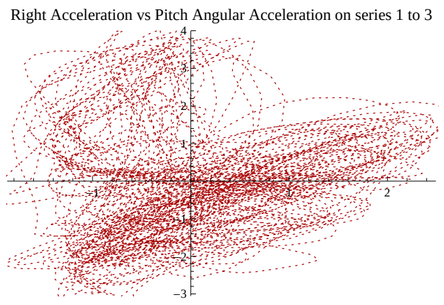
Forward Acceleration vs Pitch Angular Acceleration on series 10 to 1



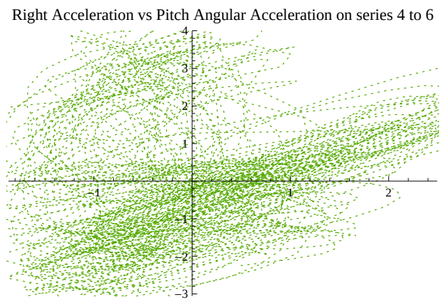
Right Acceleration vs Pitch Angular Acceleration



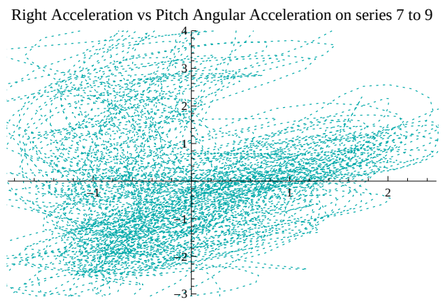
Right Acceleration vs Pitch Angular Acceleration on series 1 to 3



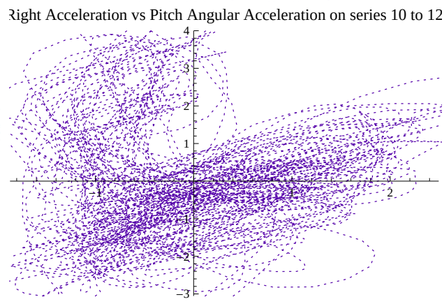
Right Acceleration vs Pitch Angular Acceleration on series 4 to 6



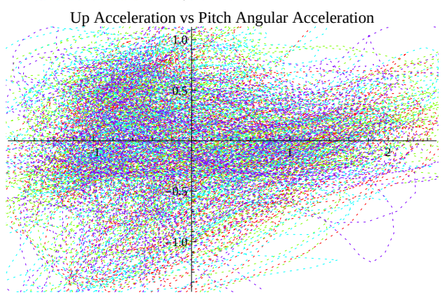
Right Acceleration vs Pitch Angular Acceleration on series 7 to 9



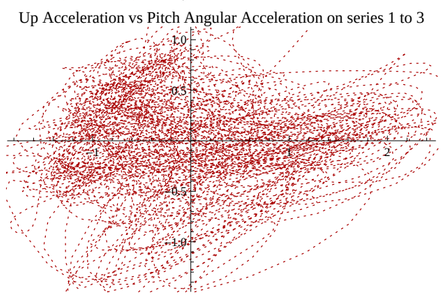
Right Acceleration vs Pitch Angular Acceleration on series 10 to 12



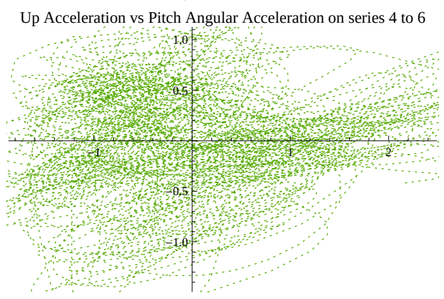
Up Acceleration vs Pitch Angular Acceleration



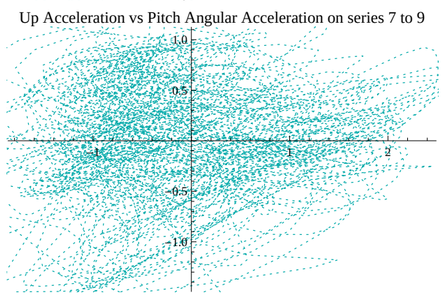
Up Acceleration vs Pitch Angular Acceleration on series 1 to 3



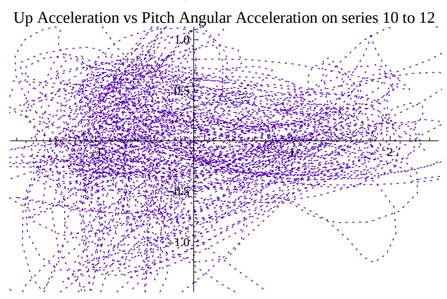
Up Acceleration vs Pitch Angular Acceleration on series 4 to 6



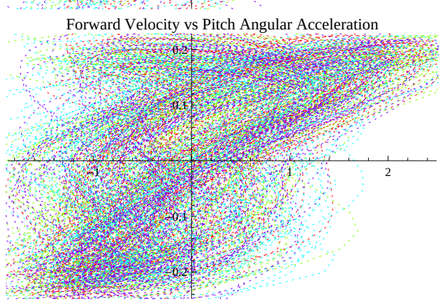
Up Acceleration vs Pitch Angular Acceleration on series 7 to 9



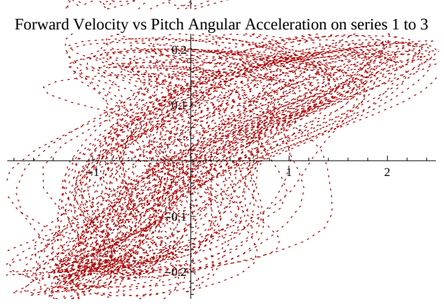
Up Acceleration vs Pitch Angular Acceleration on series 10 to 12



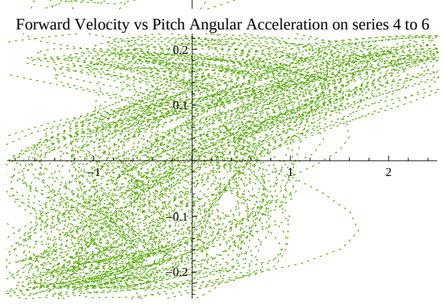
Forward Velocity vs Pitch Angular Acceleration



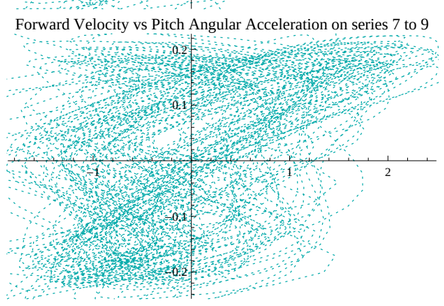
Forward Velocity vs Pitch Angular Acceleration on series 1 to 3



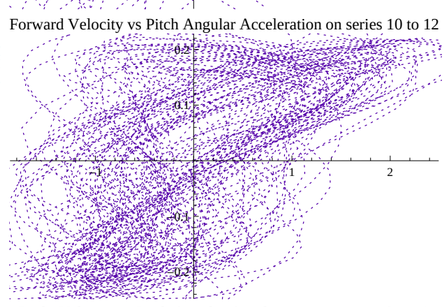
Forward Velocity vs Pitch Angular Acceleration on series 4 to 6



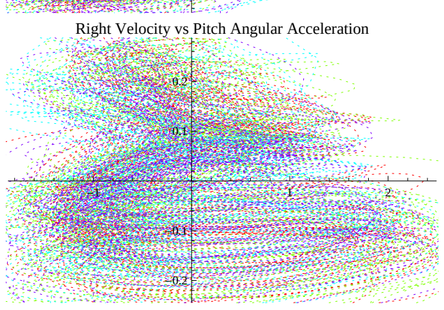
Forward Velocity vs Pitch Angular Acceleration on series 7 to 9



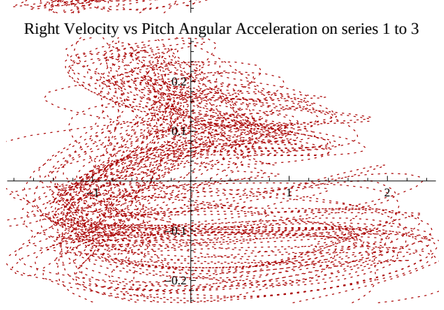
Forward Velocity vs Pitch Angular Acceleration on series 10 to 12



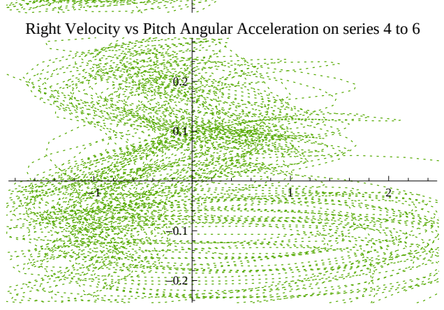
Right Velocity vs Pitch Angular Acceleration



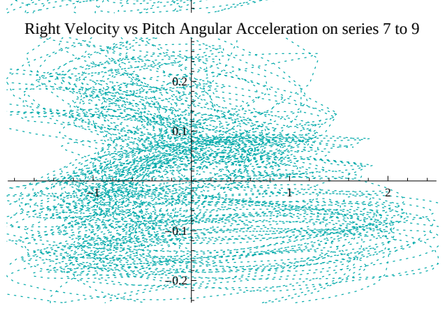
Right Velocity vs Pitch Angular Acceleration on series 1 to 3



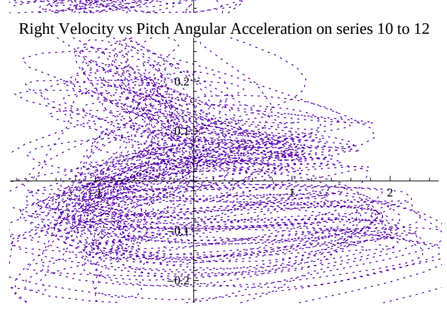
Right Velocity vs Pitch Angular Acceleration on series 4 to 6



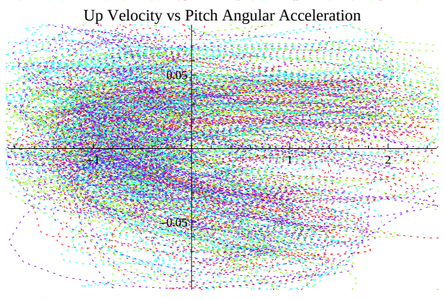
Right Velocity vs Pitch Angular Acceleration on series 7 to 9



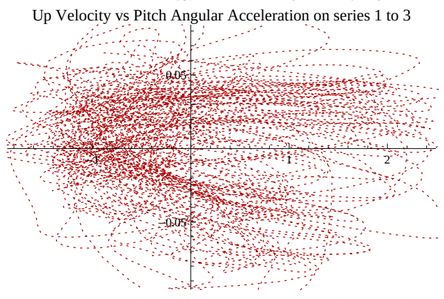
Right Velocity vs Pitch Angular Acceleration on series 10 to 12



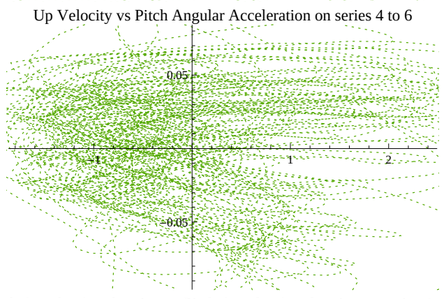
Up Velocity vs Pitch Angular Acceleration



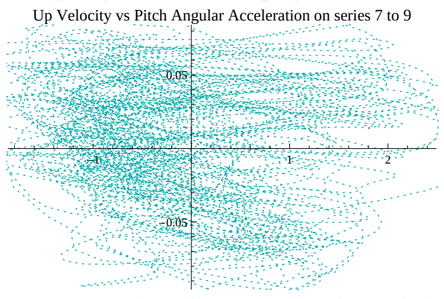
Up Velocity vs Pitch Angular Acceleration on series 1 to 3



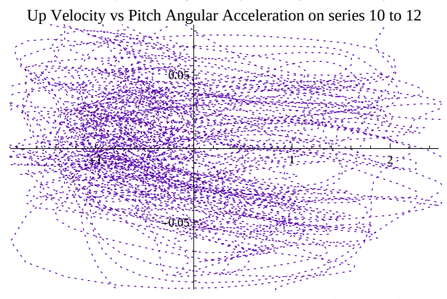
Up Velocity vs Pitch Angular Acceleration on series 4 to 6



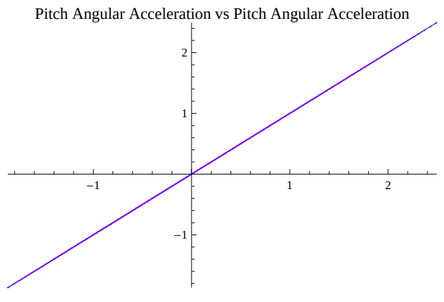
Up Velocity vs Pitch Angular Acceleration on series 7 to 9



Up Velocity vs Pitch Angular Acceleration on series 10 to 12



Pitch Angular Acceleration vs Pitch Angular Acceleration



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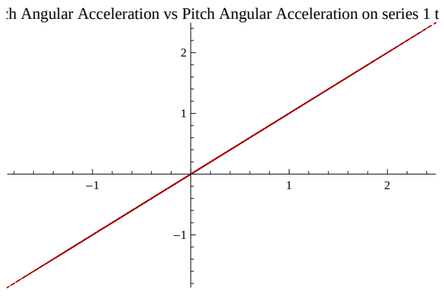

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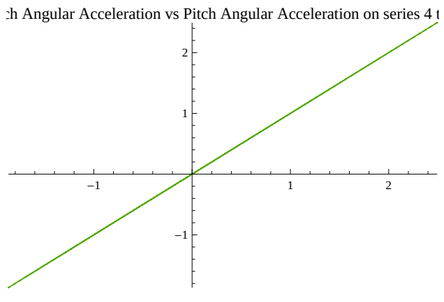

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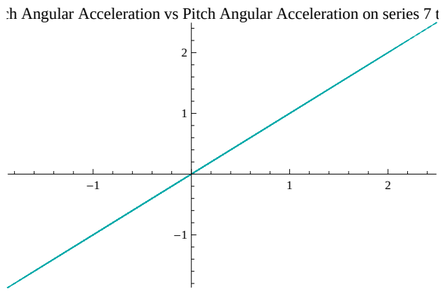
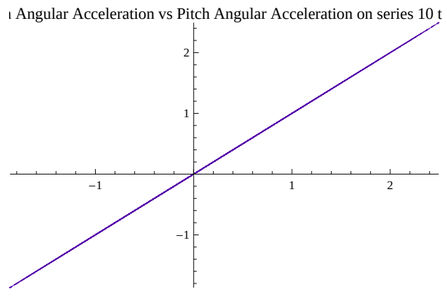
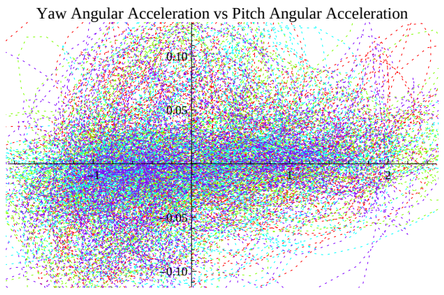


Angular Acceleration vs Pitch Angular Acceleration on series 10 t



Yaw Angular Acceleration vs Pitch Angular Acceleration



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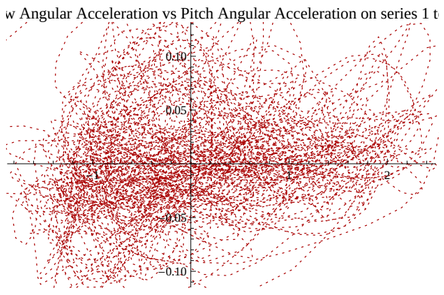

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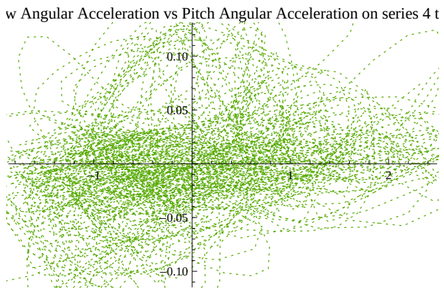

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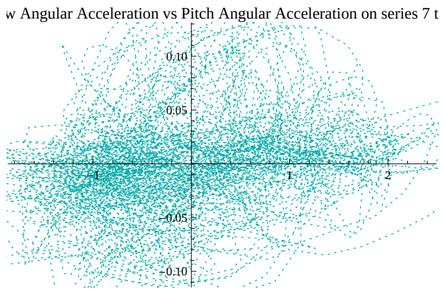
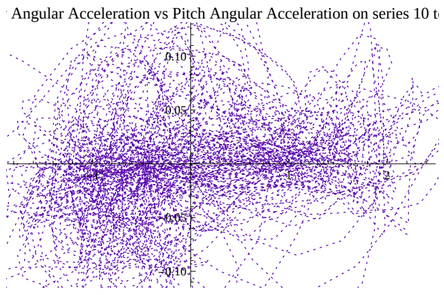
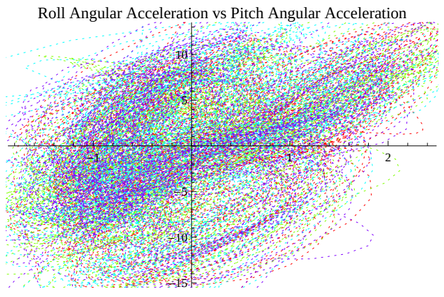


Angular Acceleration vs Pitch Angular Acceleration on series 10 t



Roll Angular Acceleration vs Pitch Angular Acceleration



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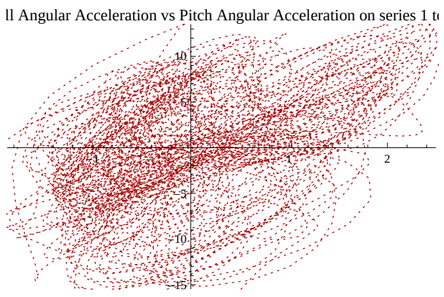

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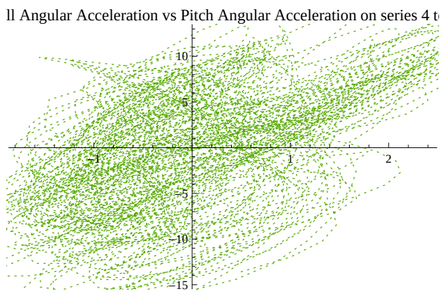

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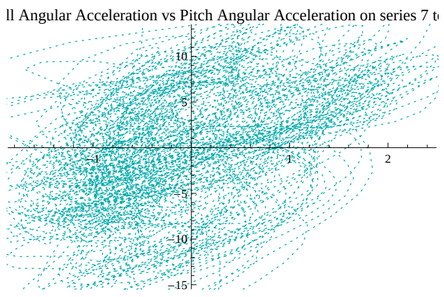
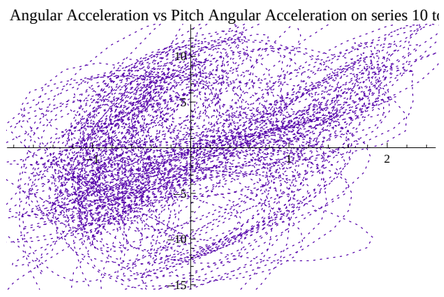
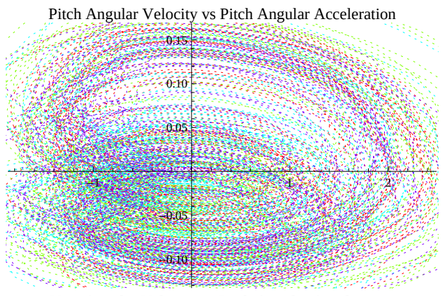


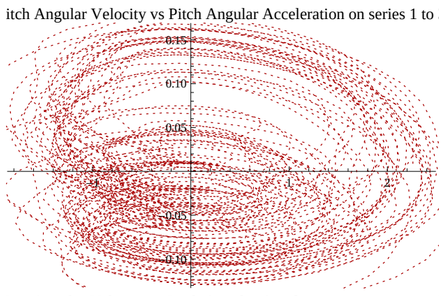
Angular Acceleration vs Pitch Angular Acceleration on series 10 t



Pitch Angular Velocity vs Pitch Angular Acceleration



itch Angular Velocity vs Pitch Angular Acceleration on series 1 to



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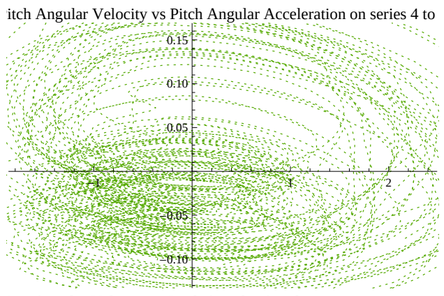

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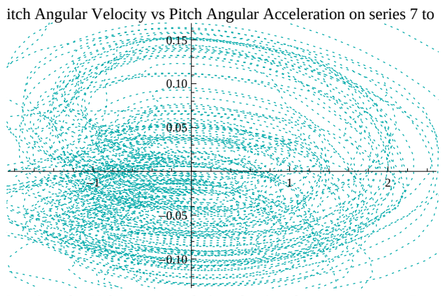

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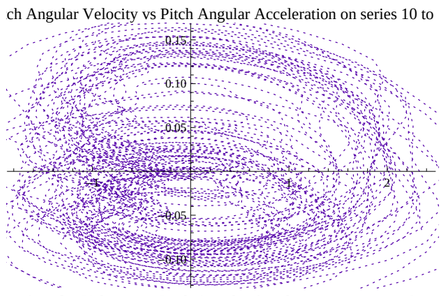
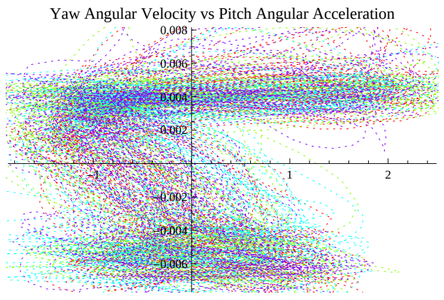


Yaw Angular Velocity vs Pitch Angular Acceleration



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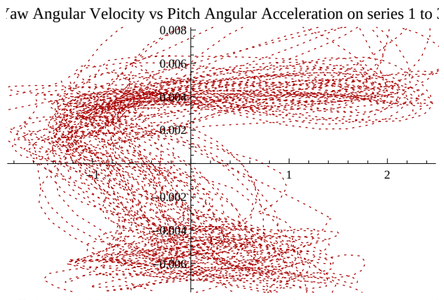

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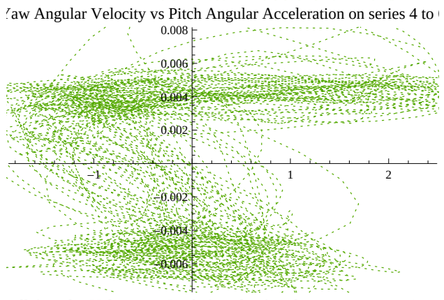

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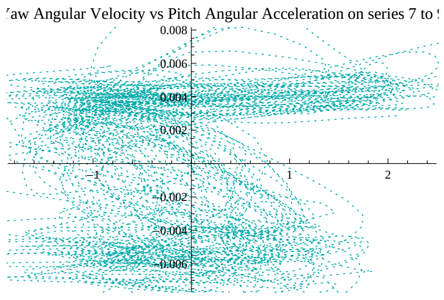

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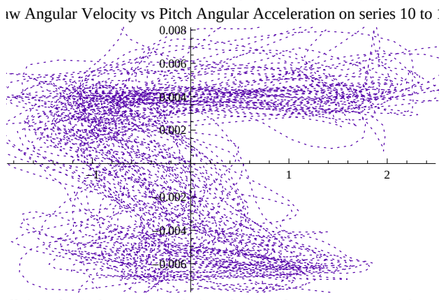
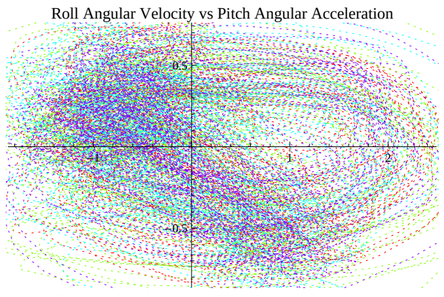
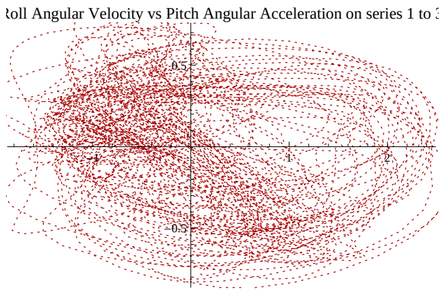


Roll Angular Velocity vs Pitch Angular Acceleration



Roll Angular Velocity vs Pitch Angular Acceleration on series 1 to



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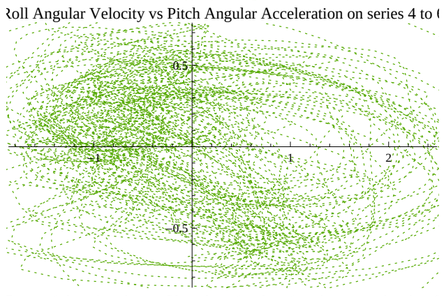
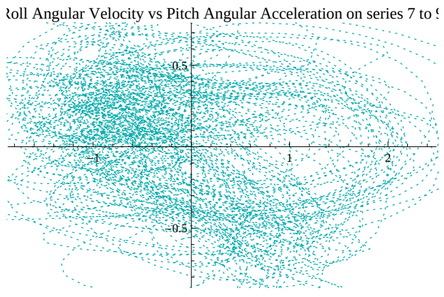


Roll Angular Velocity vs Pitch Angular Acceleration on series 7 to



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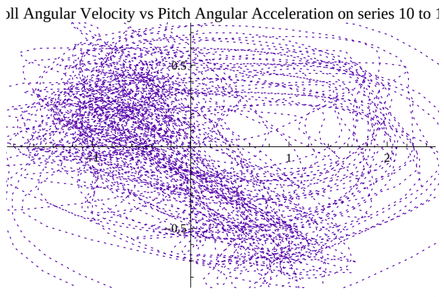
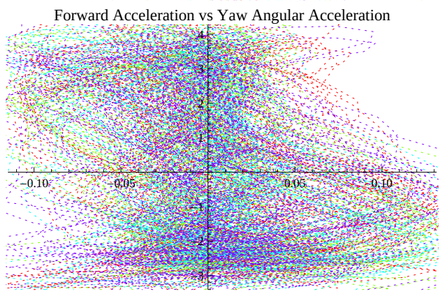
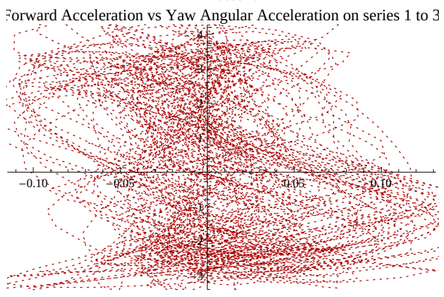


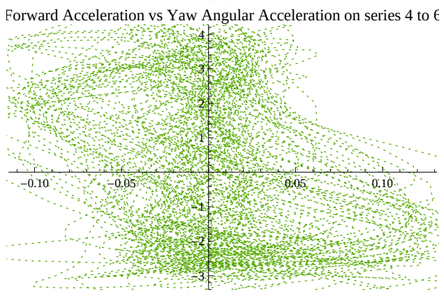
Forward Acceleration vs Yaw Angular Acceleration



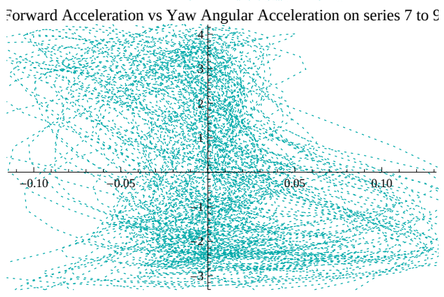
Forward Acceleration vs Yaw Angular Acceleration on series 1 to 3



Forward Acceleration vs Yaw Angular Acceleration on series 4 to 6



Forward Acceleration vs Yaw Angular Acceleration on series 7 to 9



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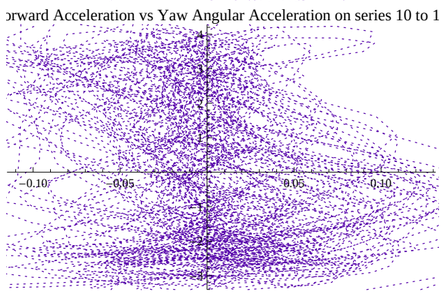
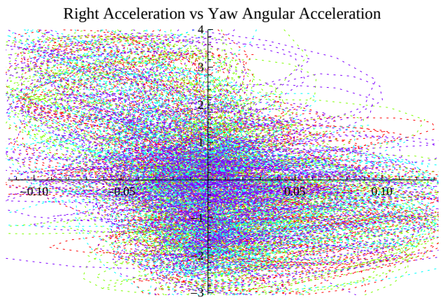
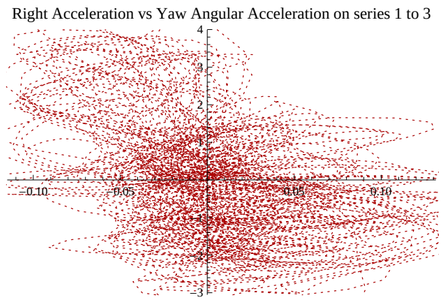


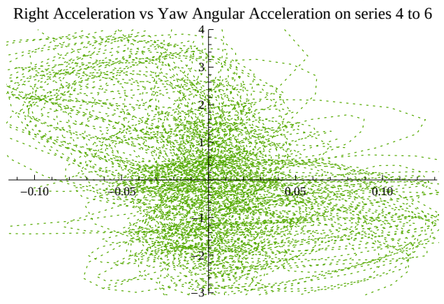
Right Acceleration vs Yaw Angular Acceleration



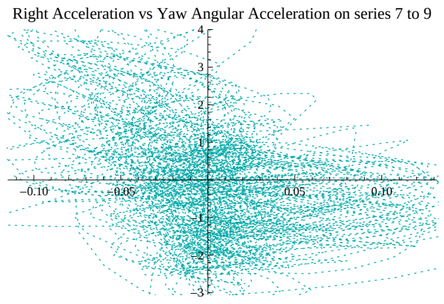
Right Acceleration vs Yaw Angular Acceleration on series 1 to 3



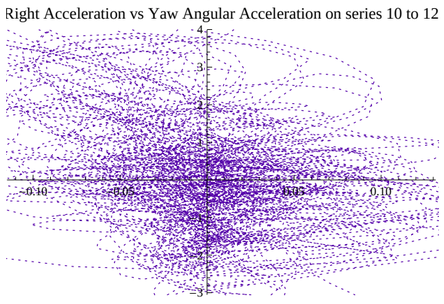
Right Acceleration vs Yaw Angular Acceleration on series 4 to 6



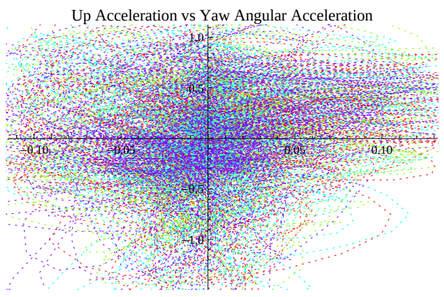
Right Acceleration vs Yaw Angular Acceleration on series 7 to 9



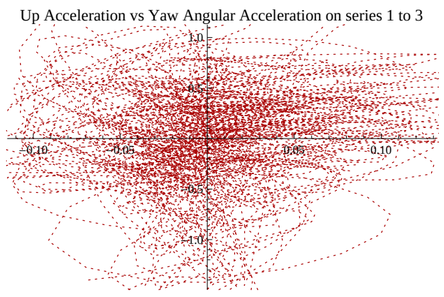
Right Acceleration vs Yaw Angular Acceleration on series 10 to 12



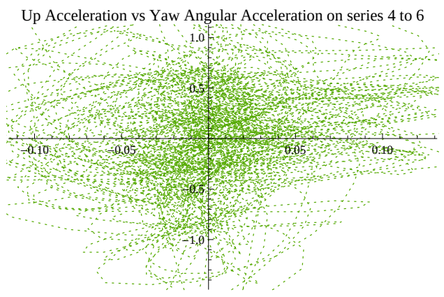
Up Acceleration vs Yaw Angular Acceleration



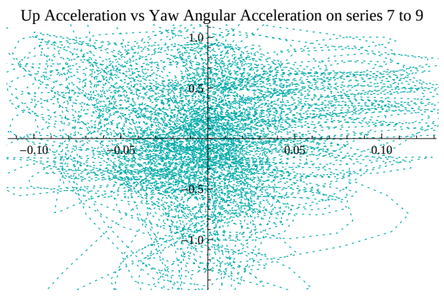
Up Acceleration vs Yaw Angular Acceleration on series 1 to 3



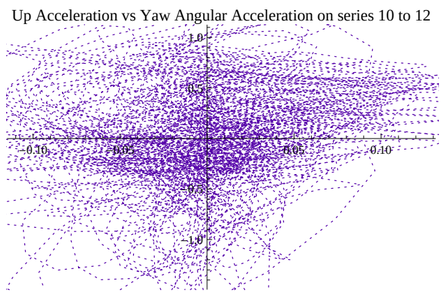
Up Acceleration vs Yaw Angular Acceleration on series 4 to 6



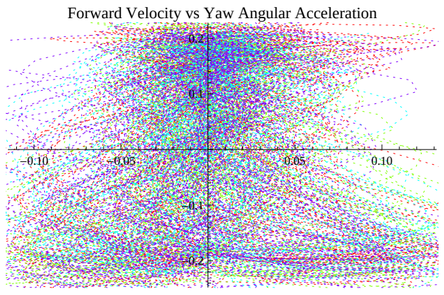
Up Acceleration vs Yaw Angular Acceleration on series 7 to 9



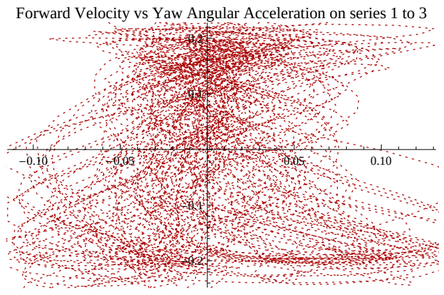
Up Acceleration vs Yaw Angular Acceleration on series 10 to 12



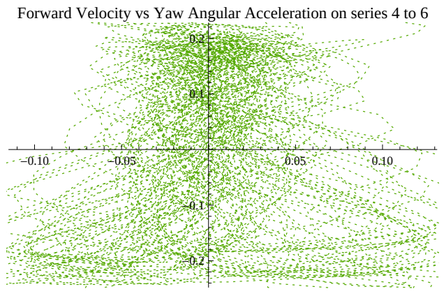
Forward Velocity vs Yaw Angular Acceleration



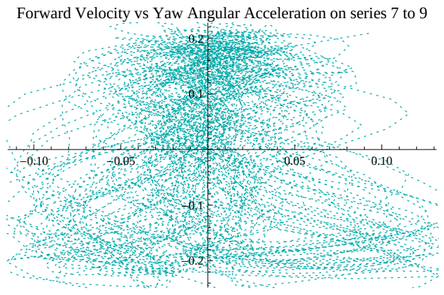
Forward Velocity vs Yaw Angular Acceleration on series 1 to 3



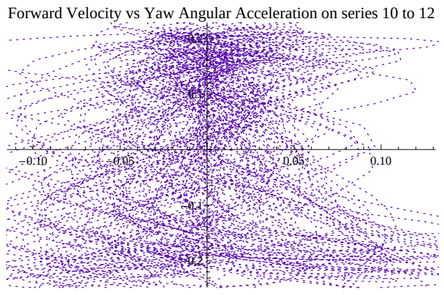
Forward Velocity vs Yaw Angular Acceleration on series 4 to 6



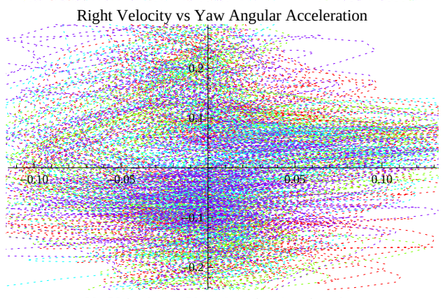
Forward Velocity vs Yaw Angular Acceleration on series 7 to 9



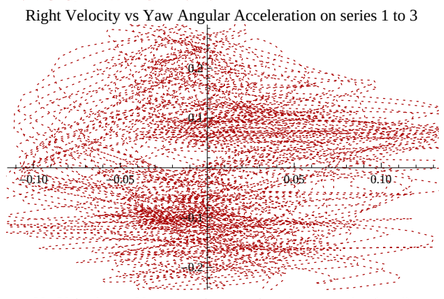
Forward Velocity vs Yaw Angular Acceleration on series 10 to 12



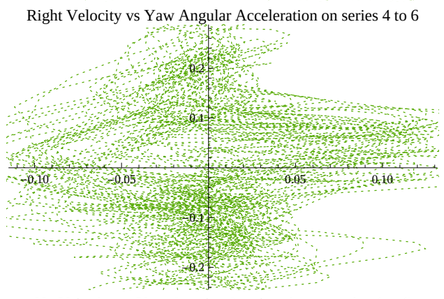
Right Velocity vs Yaw Angular Acceleration



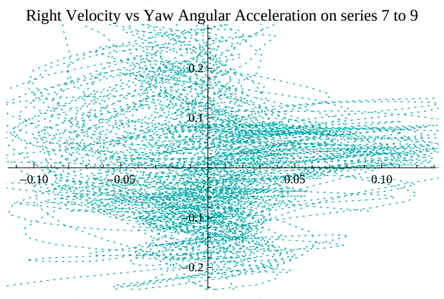
Right Velocity vs Yaw Angular Acceleration on series 1 to 3



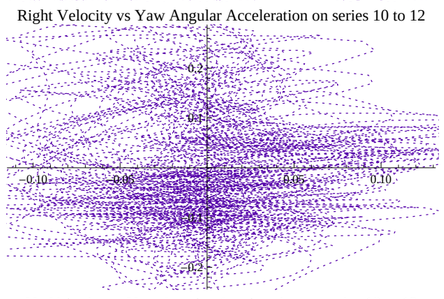
Right Velocity vs Yaw Angular Acceleration on series 4 to 6



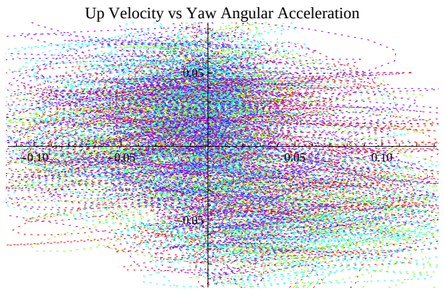
Right Velocity vs Yaw Angular Acceleration on series 7 to 9



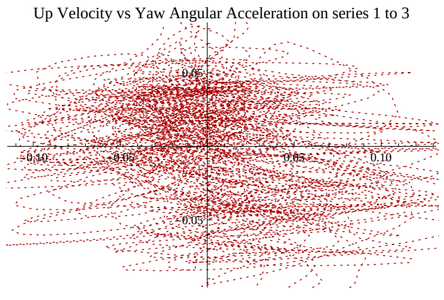
Right Velocity vs Yaw Angular Acceleration on series 10 to 12



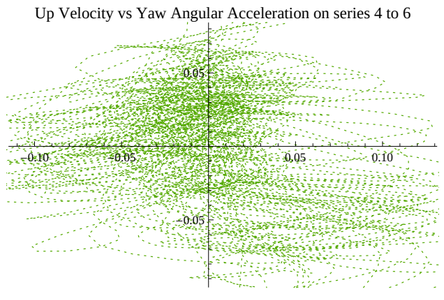
Up Velocity vs Yaw Angular Acceleration



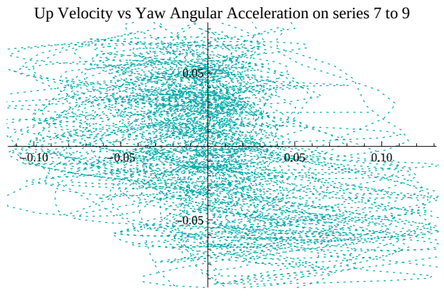
Up Velocity vs Yaw Angular Acceleration on series 1 to 3



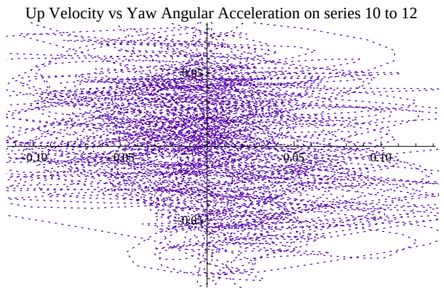
Up Velocity vs Yaw Angular Acceleration on series 4 to 6



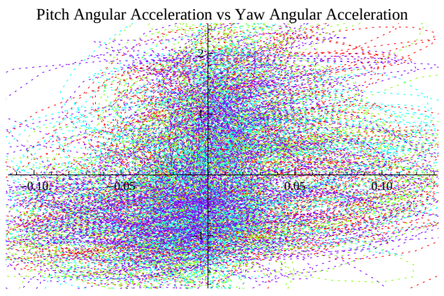
Up Velocity vs Yaw Angular Acceleration on series 7 to 9



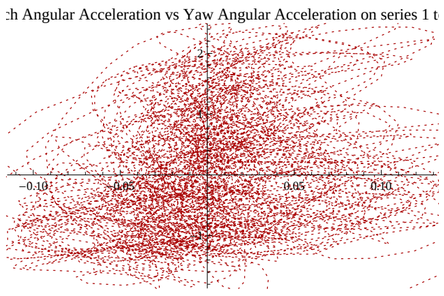
Up Velocity vs Yaw Angular Acceleration on series 10 to 12



Pitch Angular Acceleration vs Yaw Angular Acceleration



ch Angular Acceleration vs Yaw Angular Acceleration on series 1 t



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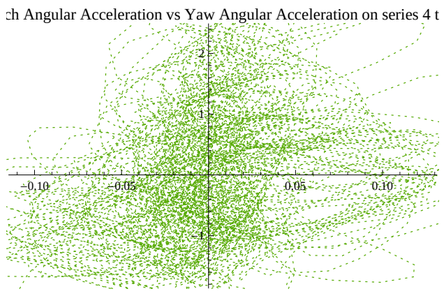

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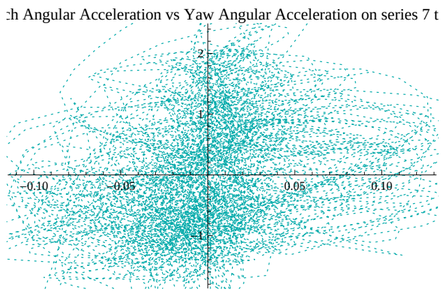

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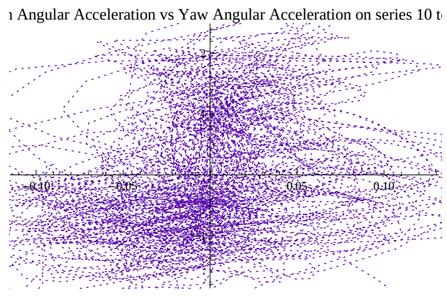
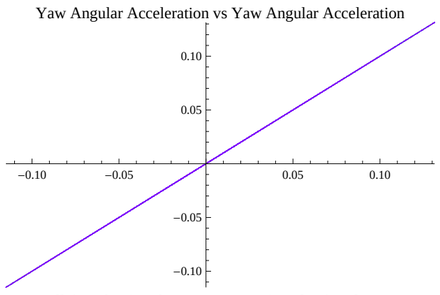


Yaw Angular Acceleration vs Yaw Angular Acceleration



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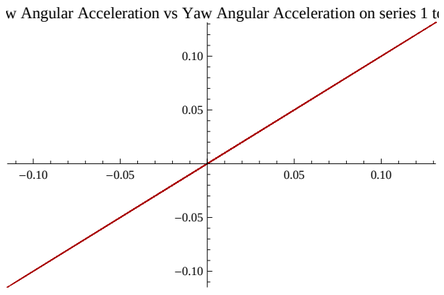

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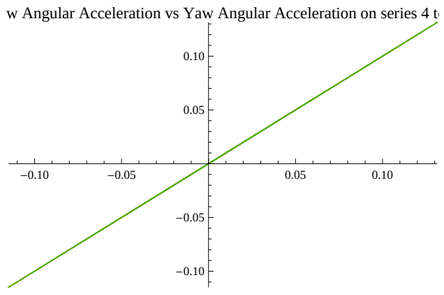

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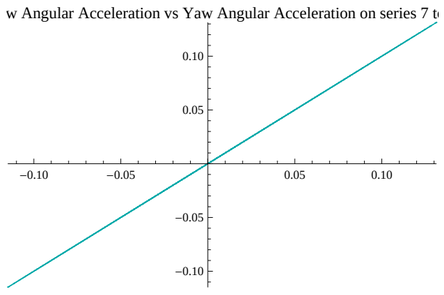
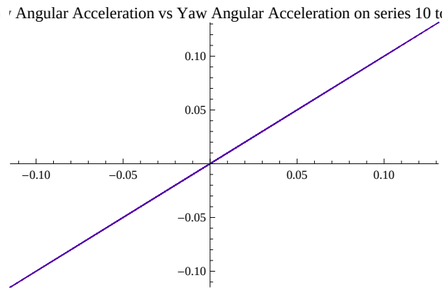
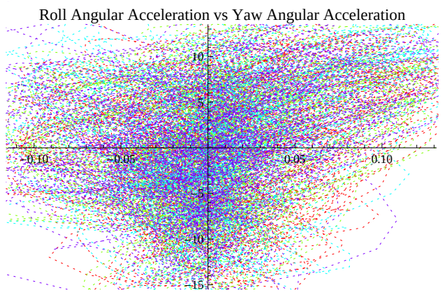


Angular Acceleration vs Yaw Angular Acceleration on series 10 t



Roll Angular Acceleration vs Yaw Angular Acceleration



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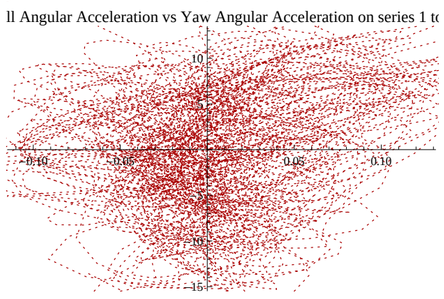

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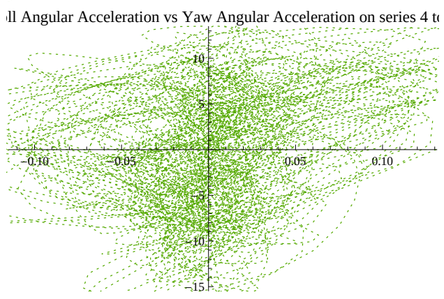

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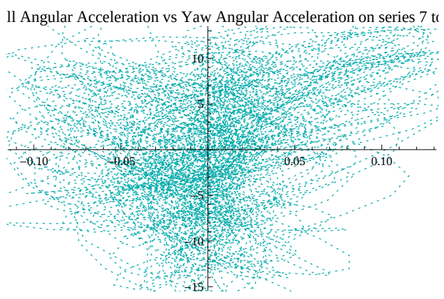
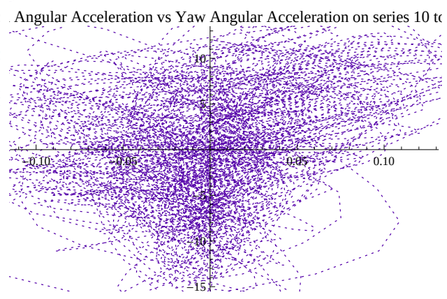
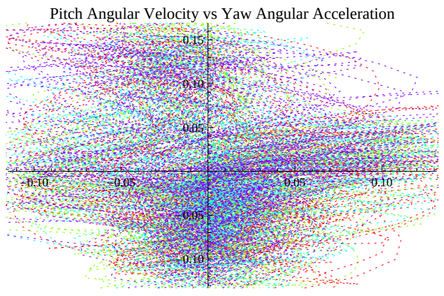


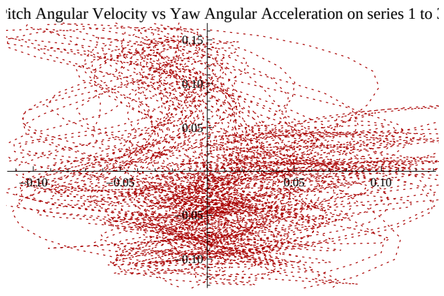
Angular Acceleration vs Yaw Angular Acceleration on series 10 t



Pitch Angular Velocity vs Yaw Angular Acceleration



itch Angular Velocity vs Yaw Angular Acceleration on series 1 to



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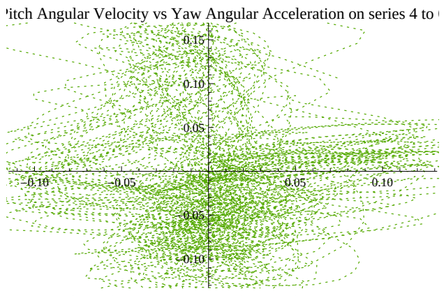

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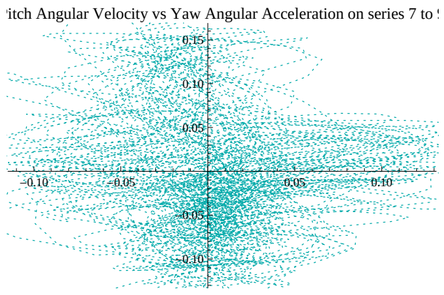

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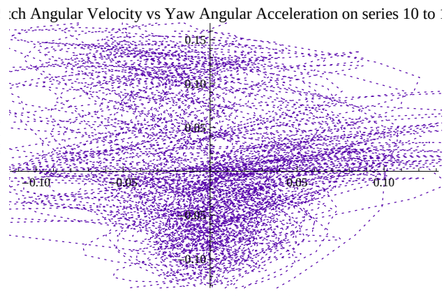
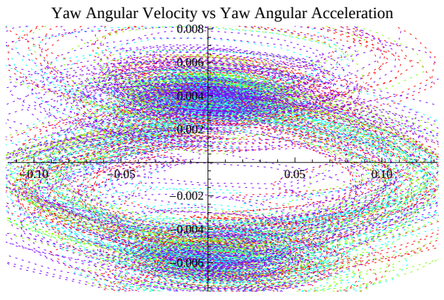


Yaw Angular Velocity vs Yaw Angular Acceleration



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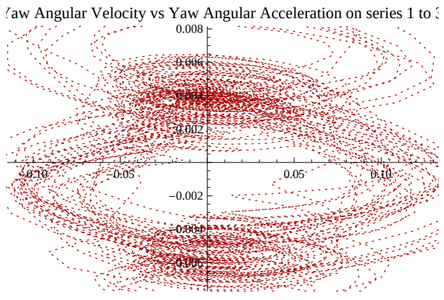

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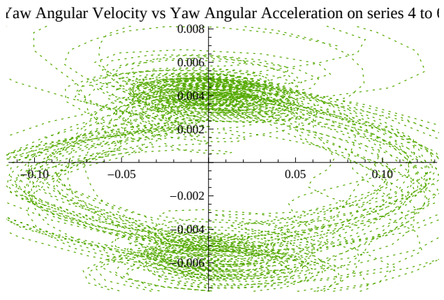

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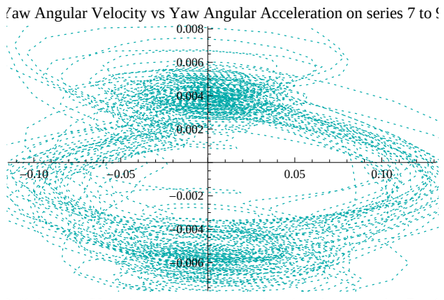

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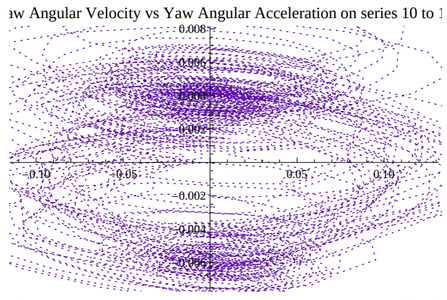
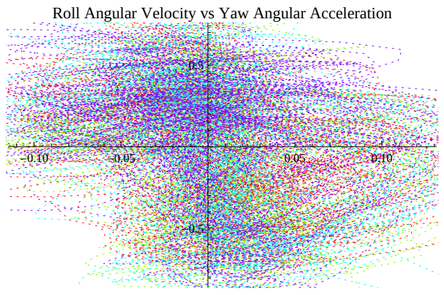
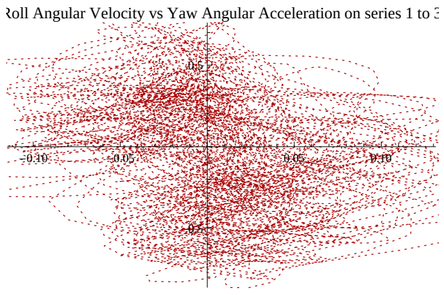


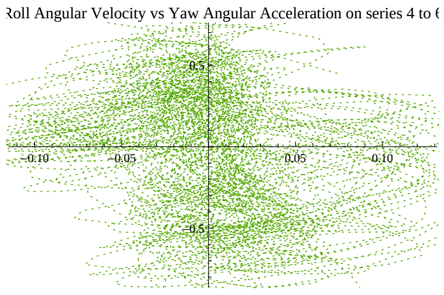
Roll Angular Velocity vs Yaw Angular Acceleration



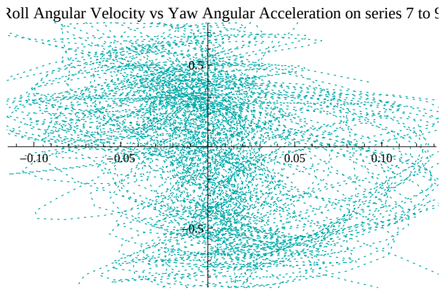
Roll Angular Velocity vs Yaw Angular Acceleration on series 1 to



Roll Angular Velocity vs Yaw Angular Acceleration on series 4 to



Roll Angular Velocity vs Yaw Angular Acceleration on series 7 to



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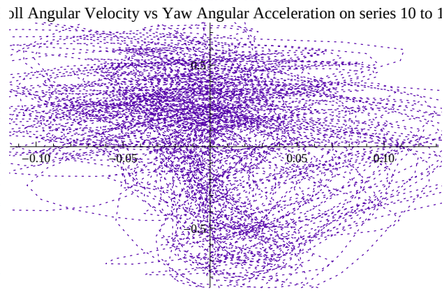
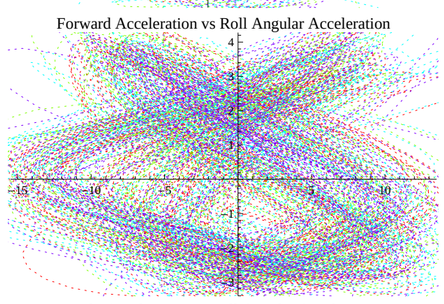
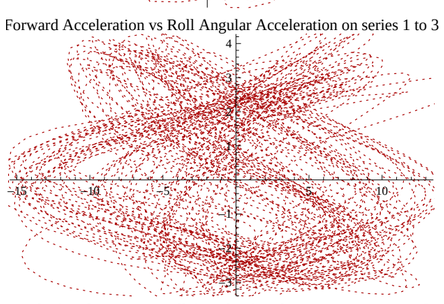


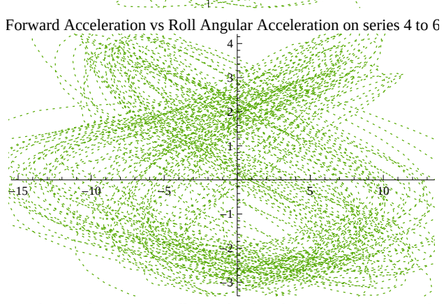
Forward Acceleration vs Roll Angular Acceleration



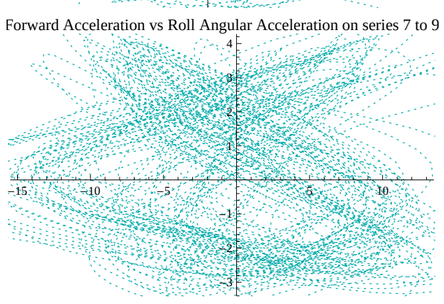
Forward Acceleration vs Roll Angular Acceleration on series 1 to 3



Forward Acceleration vs Roll Angular Acceleration on series 4 to 6



Forward Acceleration vs Roll Angular Acceleration on series 7 to 9



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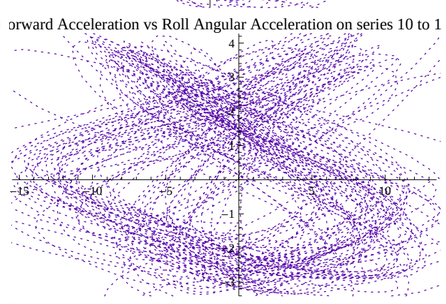
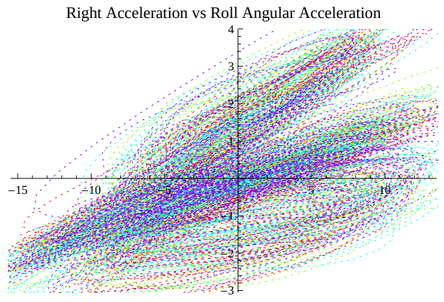
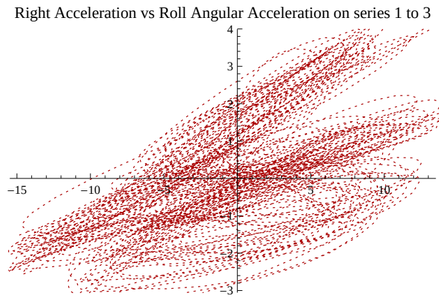


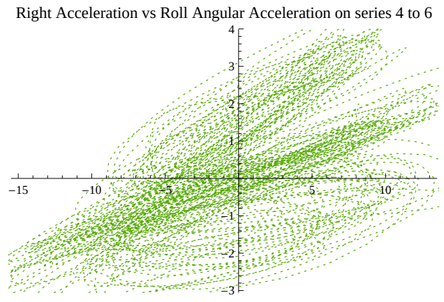
Right Acceleration vs Roll Angular Acceleration



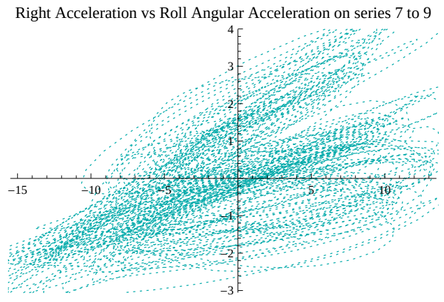
Right Acceleration vs Roll Angular Acceleration on series 1 to 3



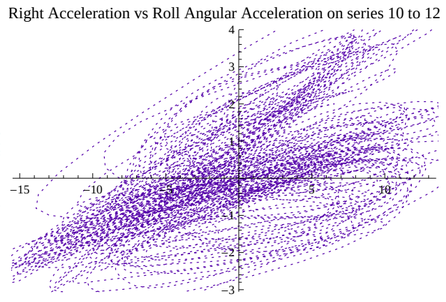
Right Acceleration vs Roll Angular Acceleration on series 4 to 6



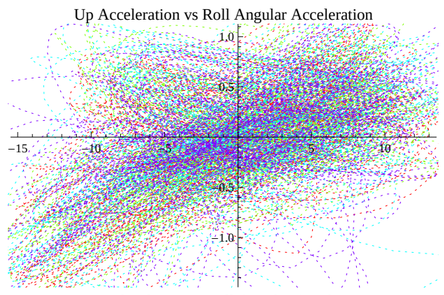
Right Acceleration vs Roll Angular Acceleration on series 7 to 9



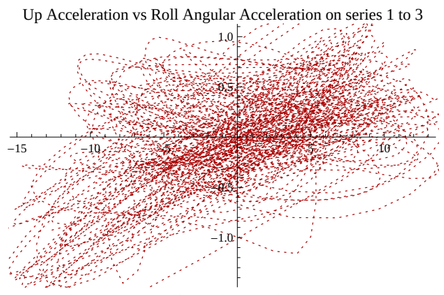
Right Acceleration vs Roll Angular Acceleration on series 10 to 12



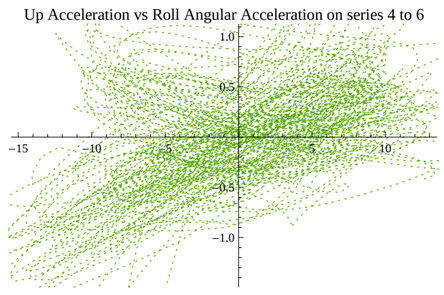
Up Acceleration vs Roll Angular Acceleration



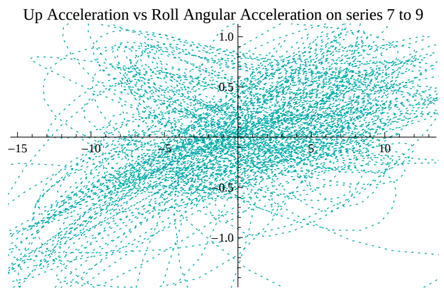
Up Acceleration vs Roll Angular Acceleration on series 1 to 3



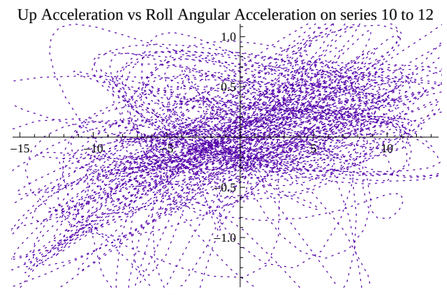
Up Acceleration vs Roll Angular Acceleration on series 4 to 6



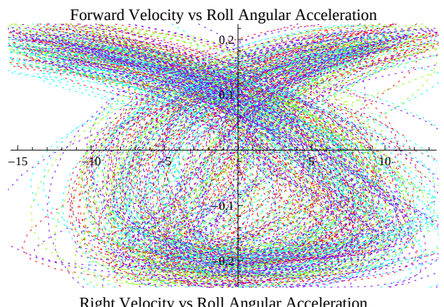
Up Acceleration vs Roll Angular Acceleration on series 7 to 9



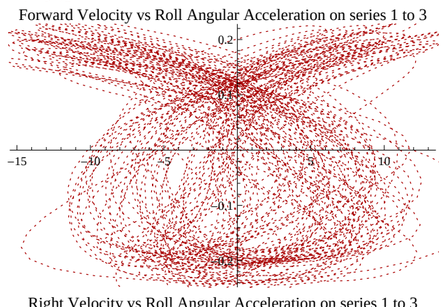
Up Acceleration vs Roll Angular Acceleration on series 10 to 12



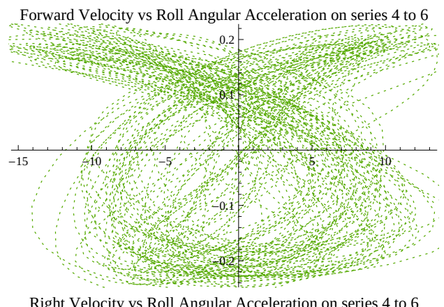
Forward Velocity vs Roll Angular Acceleration



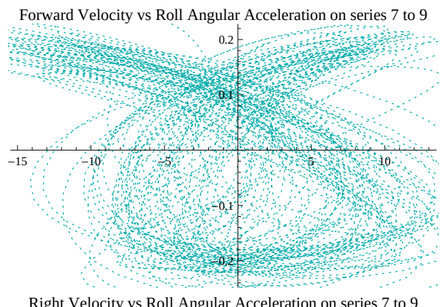
Forward Velocity vs Roll Angular Acceleration on series 1 to 3



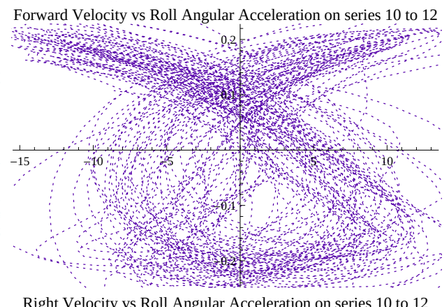
Forward Velocity vs Roll Angular Acceleration on series 4 to 6



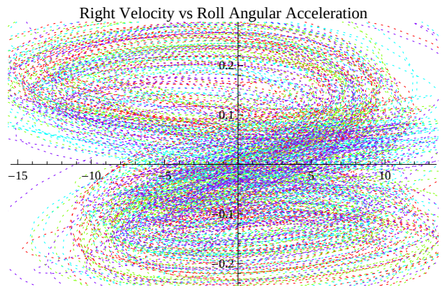
Forward Velocity vs Roll Angular Acceleration on series 7 to 9



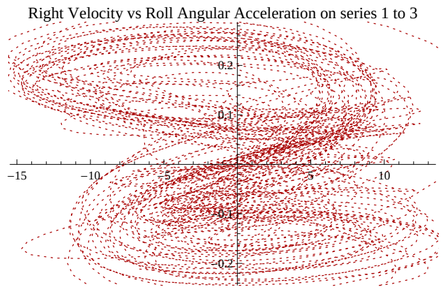
Forward Velocity vs Roll Angular Acceleration on series 10 to 12



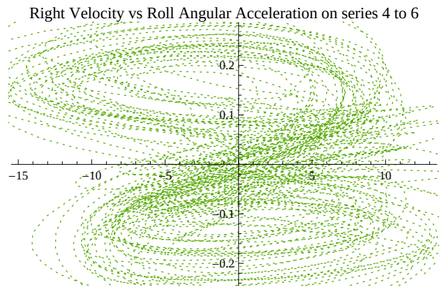
Right Velocity vs Roll Angular Acceleration



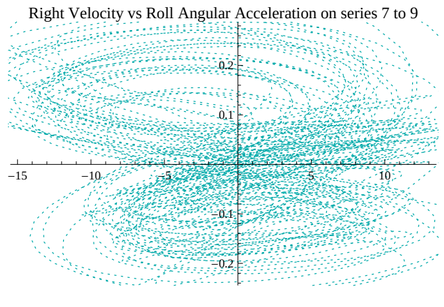
Right Velocity vs Roll Angular Acceleration on series 1 to 3



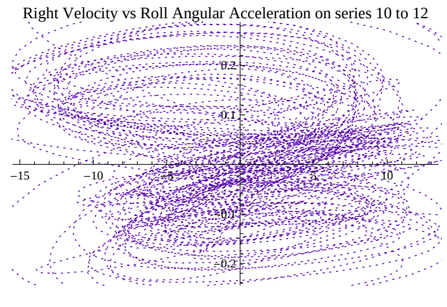
Right Velocity vs Roll Angular Acceleration on series 4 to 6



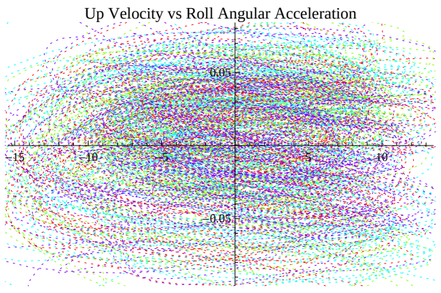
Right Velocity vs Roll Angular Acceleration on series 7 to 9



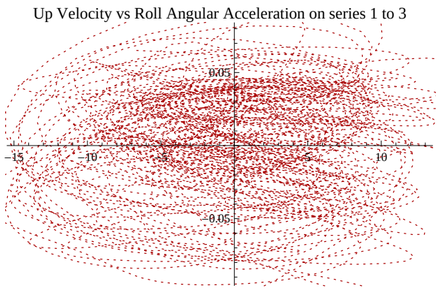
Right Velocity vs Roll Angular Acceleration on series 10 to 12



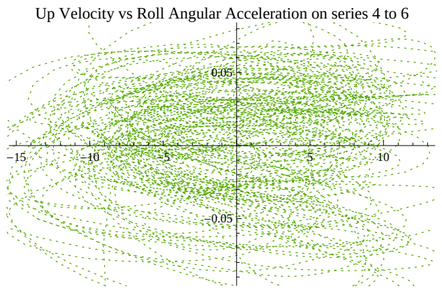
Up Velocity vs Roll Angular Acceleration



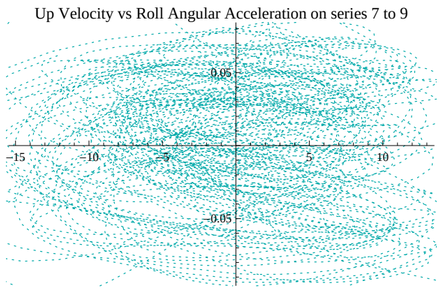
Up Velocity vs Roll Angular Acceleration on series 1 to 3



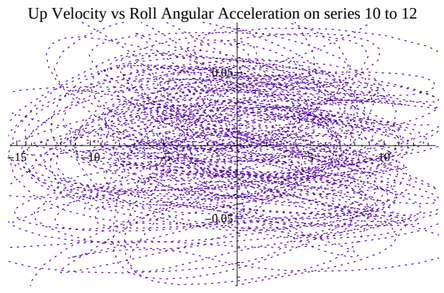
Up Velocity vs Roll Angular Acceleration on series 4 to 6



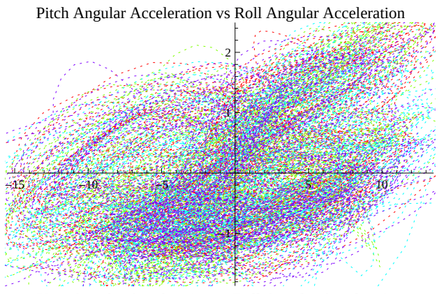
Up Velocity vs Roll Angular Acceleration on series 7 to 9



Up Velocity vs Roll Angular Acceleration on series 10 to 12



Pitch Angular Acceleration vs Roll Angular Acceleration



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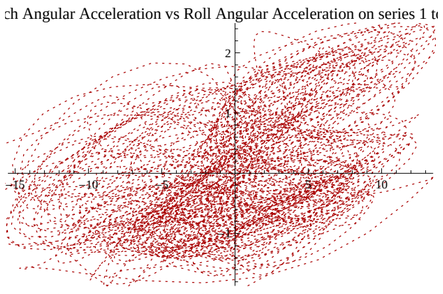

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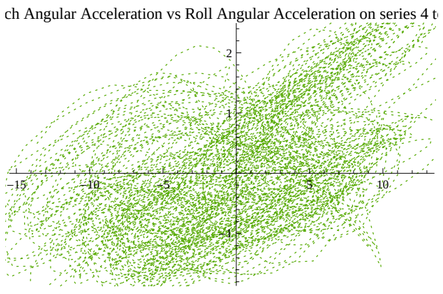

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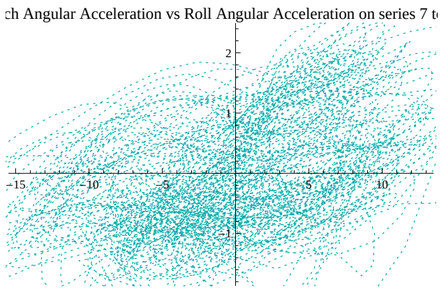

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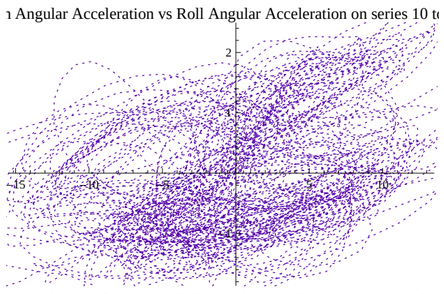

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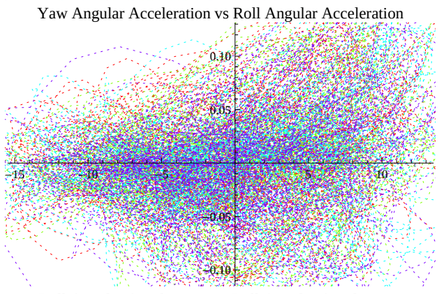

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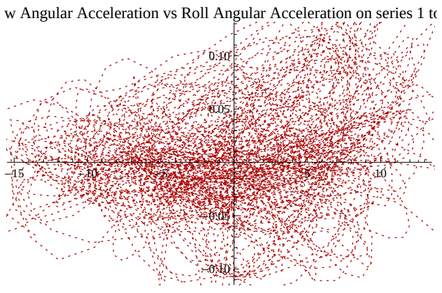

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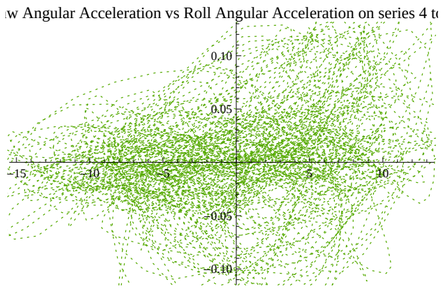

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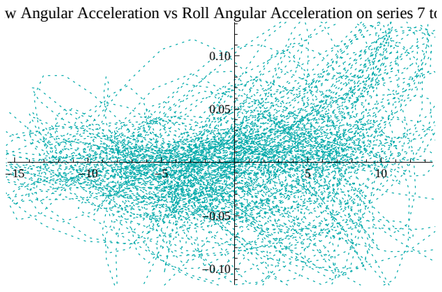

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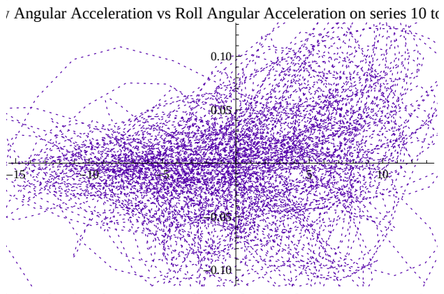

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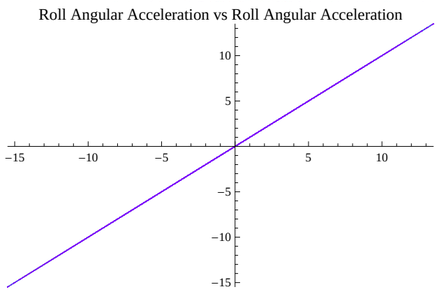

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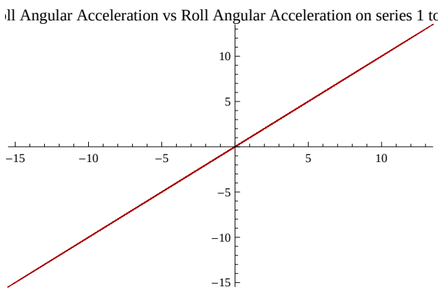

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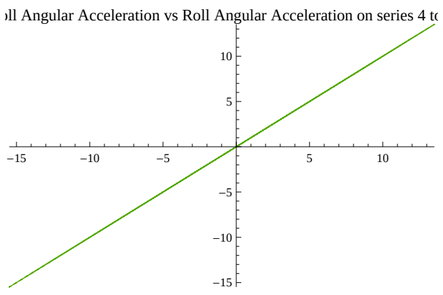

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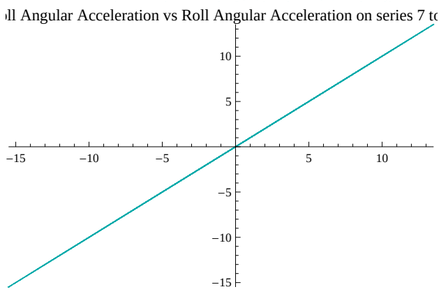

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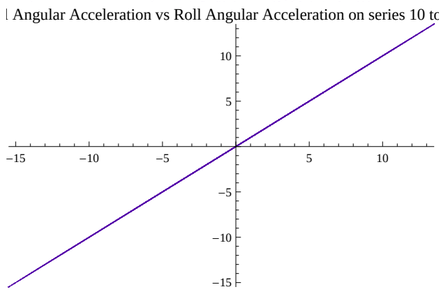
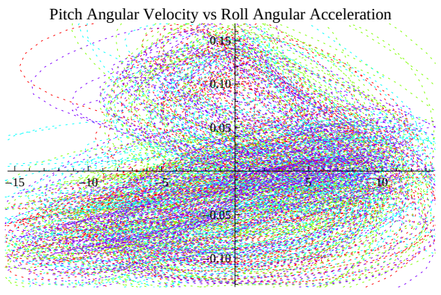
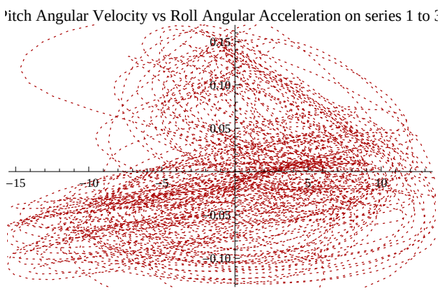


Pitch Angular Velocity vs Roll Angular Acceleration



itch Angular Velocity vs Roll Angular Acceleration on series 1 to 3



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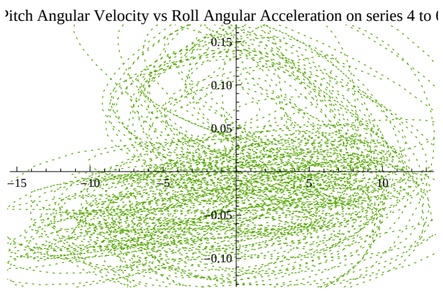
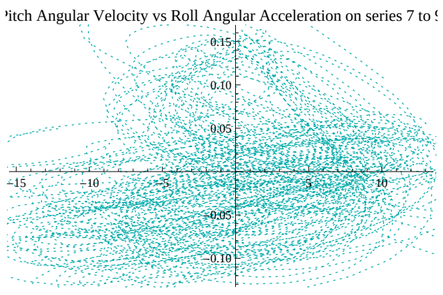


itch Angular Velocity vs Roll Angular Acceleration on series 7 to 9



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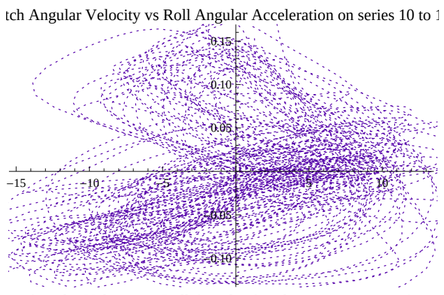

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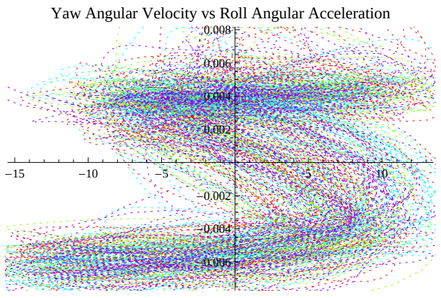

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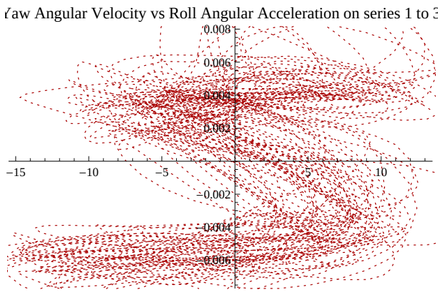

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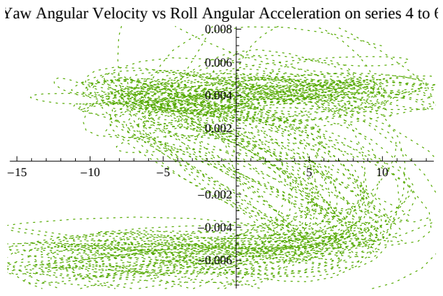
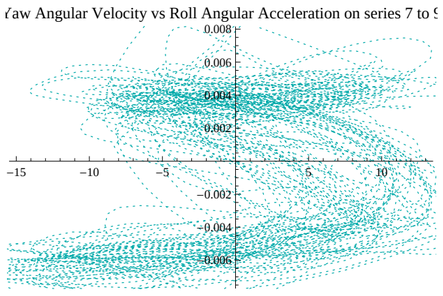
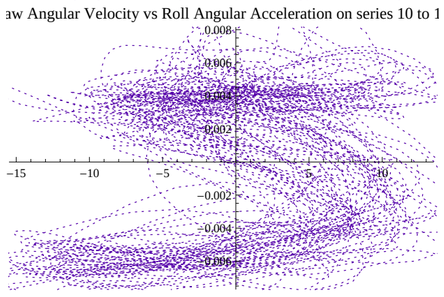


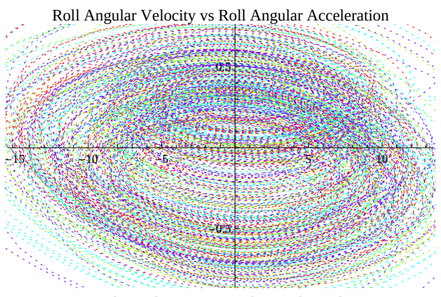
aw Angular Velocity vs Roll Angular Acceleration on series 7 to 9



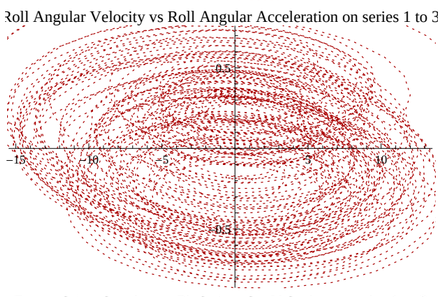
aw Angular Velocity vs Roll Angular Acceleration on series 10 to 1



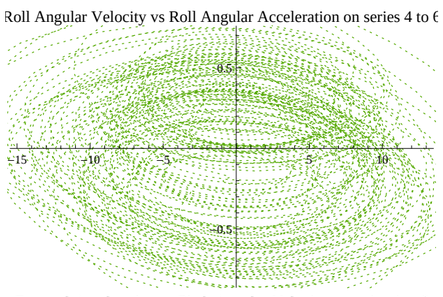
Roll Angular Velocity vs Roll Angular Acceleration



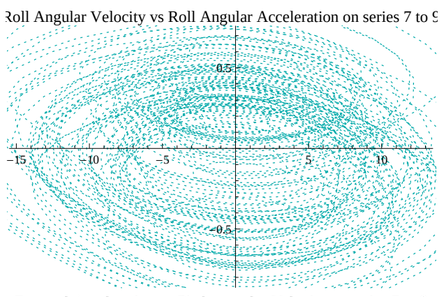
Roll Angular Velocity vs Roll Angular Acceleration on series 1 to 3



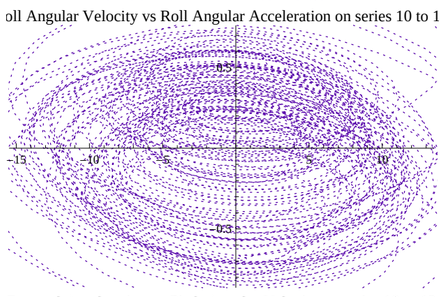
Roll Angular Velocity vs Roll Angular Acceleration on series 4 to 6



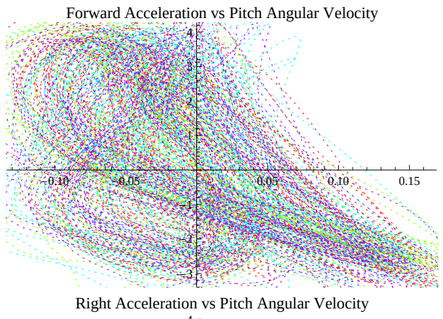
Roll Angular Velocity vs Roll Angular Acceleration on series 7 to 9



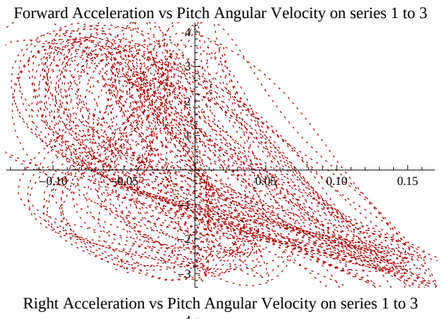
oll Angular Velocity vs Roll Angular Acceleration on series 10 to 1



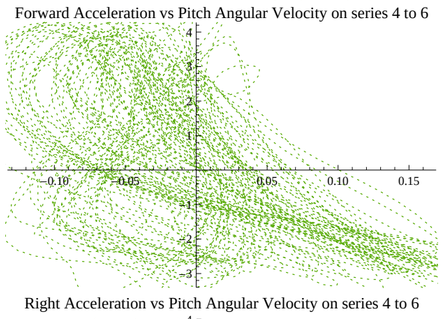
Forward Acceleration vs Pitch Angular Velocity



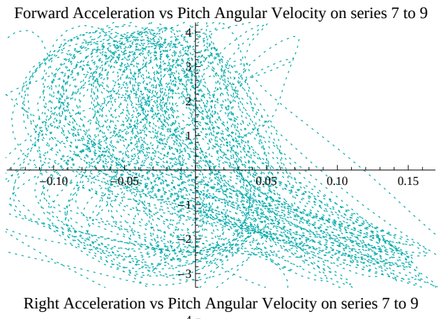
Forward Acceleration vs Pitch Angular Velocity on series 1 to 3



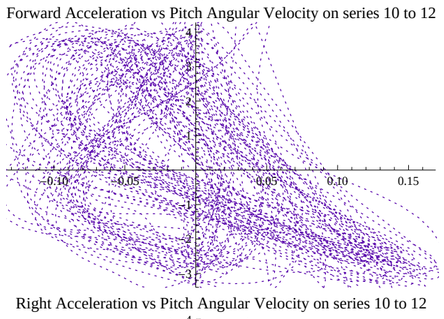
Forward Acceleration vs Pitch Angular Velocity on series 4 to 6



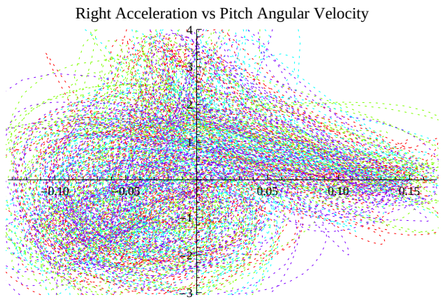
Forward Acceleration vs Pitch Angular Velocity on series 7 to 9



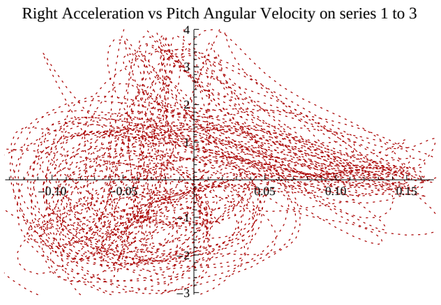
Forward Acceleration vs Pitch Angular Velocity on series 10 to 12



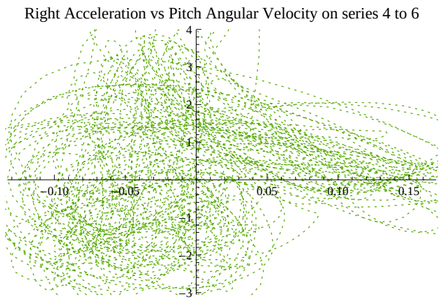
Right Acceleration vs Pitch Angular Velocity



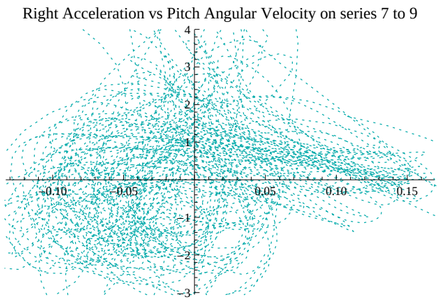
Right Acceleration vs Pitch Angular Velocity on series 1 to 3



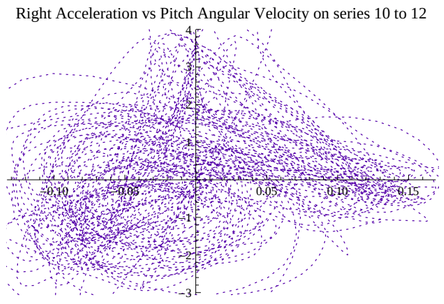
Right Acceleration vs Pitch Angular Velocity on series 4 to 6



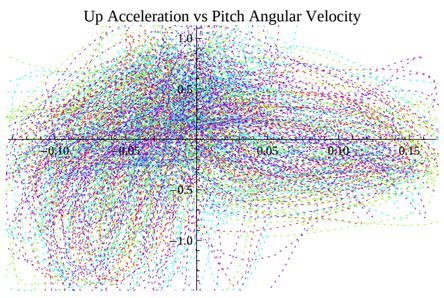
Right Acceleration vs Pitch Angular Velocity on series 7 to 9



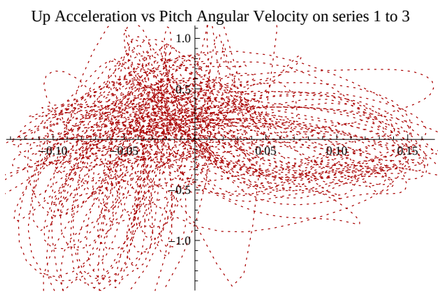
Right Acceleration vs Pitch Angular Velocity on series 10 to 12



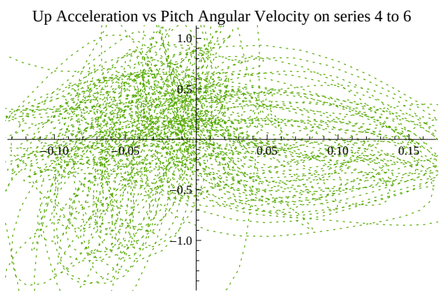
Up Acceleration vs Pitch Angular Velocity



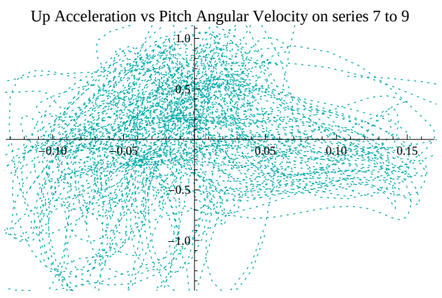
Up Acceleration vs Pitch Angular Velocity on series 1 to 3



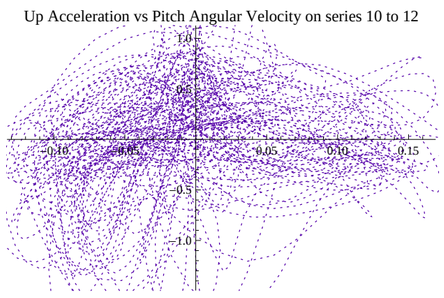
Up Acceleration vs Pitch Angular Velocity on series 4 to 6



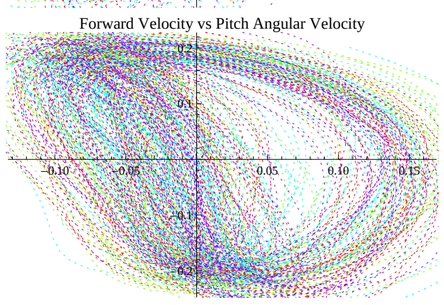
Up Acceleration vs Pitch Angular Velocity on series 7 to 9



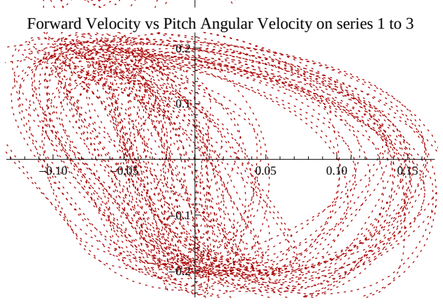
Up Acceleration vs Pitch Angular Velocity on series 10 to 12



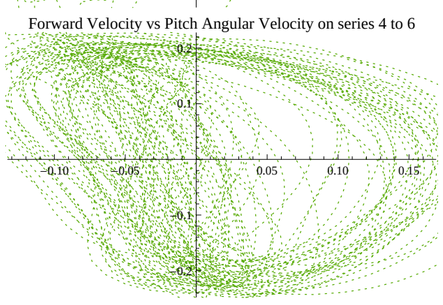
Forward Velocity vs Pitch Angular Velocity



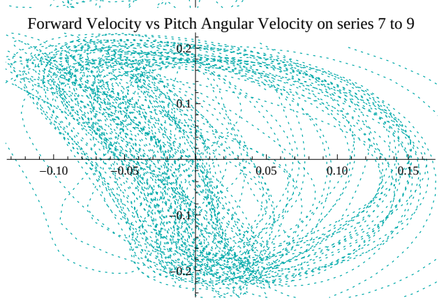
Forward Velocity vs Pitch Angular Velocity on series 1 to 3



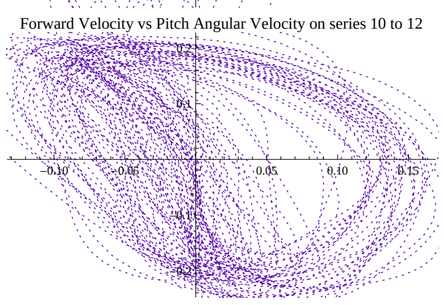
Forward Velocity vs Pitch Angular Velocity on series 4 to 6

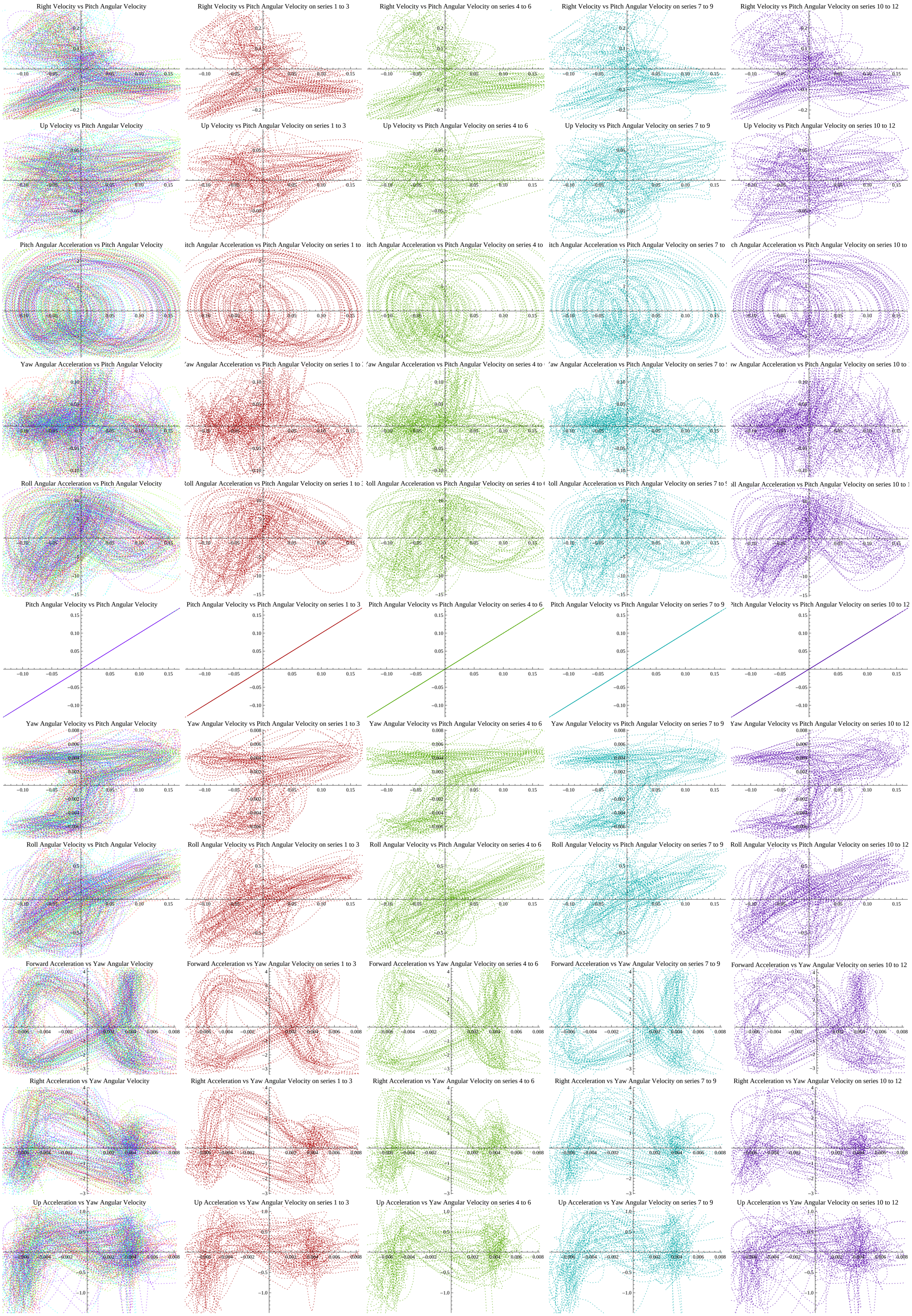


Forward Velocity vs Pitch Angular Velocity on series 7 to 9



Forward Velocity vs Pitch Angular Velocity on series 10 to 12




Right Velocity vs Pitch Angular Velocity
Right Velocity vs Pitch Angular Velocity on series 1 to 3
Right Velocity vs Pitch Angular Velocity on series 4 to 6
Right Velocity vs Pitch Angular Velocity on series 7 to 9
Right Velocity vs Pitch Angular Velocity on series 10 to 12
Up Velocity vs Pitch Angular Velocity
Up Velocity vs Pitch Angular Velocity on series 1 to 3
Up Velocity vs Pitch Angular Velocity on series 4 to 6
Up Velocity vs Pitch Angular Velocity on series 7 to 9
Up Velocity vs Pitch Angular Velocity on series 10 to 12
Pitch Angular Acceleration vs Pitch Angular Velocity
itch Angular Acceleration vs Pitch Angular Velocity on series 1 to
itch Angular Acceleration vs Pitch Angular Velocity on series 4 to
itch Angular Acceleration vs Pitch Angular Velocity on series 7 to
ch Angular Acceleration vs Pitch Angular Velocity on series 10 to
Yaw Angular Acceleration vs Pitch Angular Velocity
aw Angular Acceleration vs Pitch Angular Velocity on series 1 to
aw Angular Acceleration vs Pitch Angular Velocity on series 4 to
aw Angular Acceleration vs Pitch Angular Velocity on series 7 to
w Angular Acceleration vs Pitch Angular Velocity on series 10 to
Roll Angular Acceleration vs Pitch Angular Velocity
oll Angular Acceleration vs Pitch Angular Velocity on series 1 to
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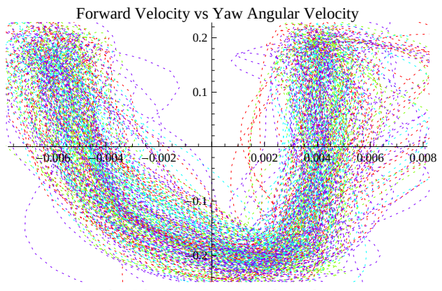
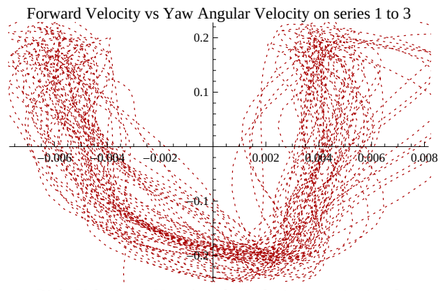
Pitch Angular Velocity vs Pitch Angular Velocity
Pitch Angular Velocity vs Pitch Angular Velocity on series 1 to 3
Pitch Angular Velocity vs Pitch Angular Velocity on series 4 to 6
Pitch Angular Velocity vs Pitch Angular Velocity on series 7 to 9
Pitch Angular Velocity vs Pitch Angular Velocity on series 10 to 12
Yaw Angular Velocity vs Pitch Angular Velocity
Yaw Angular Velocity vs Pitch Angular Velocity on series 1 to 3
Yaw Angular Velocity vs Pitch Angular Velocity on series 4 to 6
Yaw Angular Velocity vs Pitch Angular Velocity on series 7 to 9
Yaw Angular Velocity vs Pitch Angular Velocity on series 10 to 12
Roll Angular Velocity vs Pitch Angular Velocity
Roll Angular Velocity vs Pitch Angular Velocity on series 1 to 3
Roll Angular Velocity vs Pitch Angular Velocity on series 4 to 6
Roll Angular Velocity vs Pitch Angular Velocity on series 7 to 9
Roll Angular Velocity vs Pitch Angular Velocity on series 10 to 12
Forward Acceleration vs Yaw Angular Velocity
Forward Acceleration vs Yaw Angular Velocity on series 1 to 3
Forward Acceleration vs Yaw Angular Velocity on series 4 to 6
Forward Acceleration vs Yaw Angular Velocity on series 7 to 9
Forward Acceleration vs Yaw Angular Velocity on series 10 to 12
Right Acceleration vs Yaw Angular Velocity
Right Acceleration vs Yaw Angular Velocity on series 1 to 3
Right Acceleration vs Yaw Angular Velocity on series 4 to 6
Right Acceleration vs Yaw Angular Velocity on series 7 to 9
Right Acceleration vs Yaw Angular Velocity on series 10 to 12
Up Acceleration vs Yaw Angular Velocity
Up Acceleration vs Yaw Angular Velocity on series 1 to 3
Up Acceleration vs Yaw Angular Velocity on series 4 to 6
Up Acceleration vs Yaw Angular Velocity on series 7 to 9
Up Acceleration vs Yaw Angular Velocity on series 10 to 12

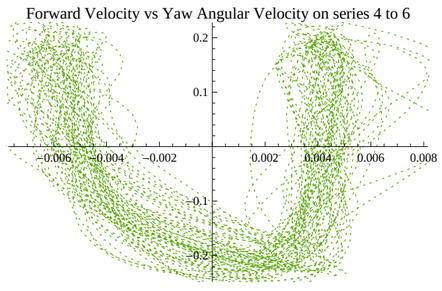
Forward Velocity vs Yaw Angular Velocity



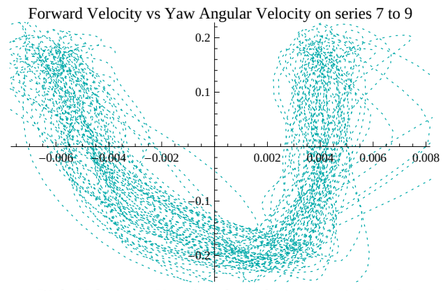
Forward Velocity vs Yaw Angular Velocity on series 1 to 3



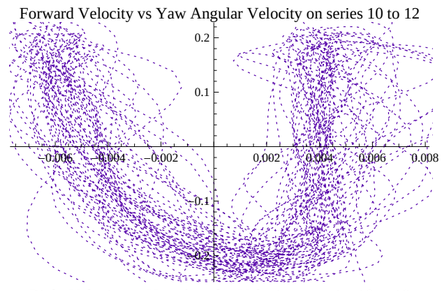
Forward Velocity vs Yaw Angular Velocity on series 4 to 6



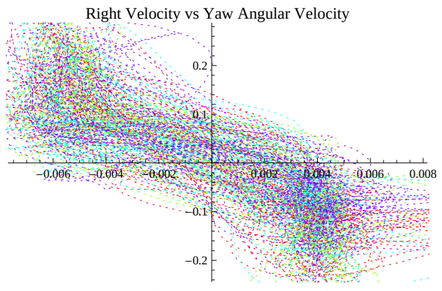
Forward Velocity vs Yaw Angular Velocity on series 7 to 9



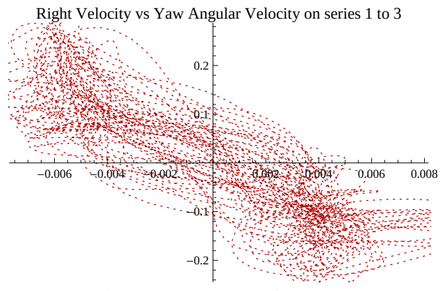
Forward Velocity vs Yaw Angular Velocity on series 10 to 12



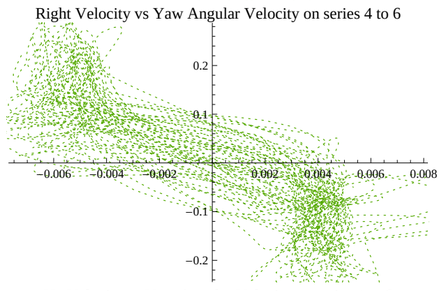
Right Velocity vs Yaw Angular Velocity



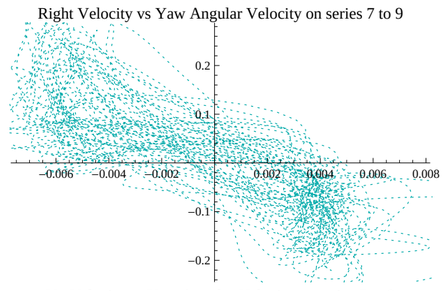
Right Velocity vs Yaw Angular Velocity on series 1 to 3



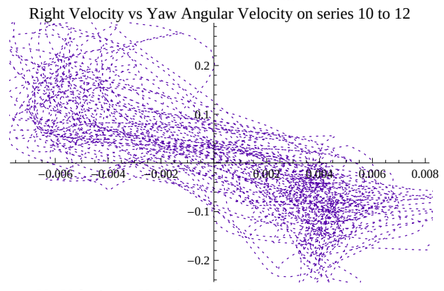
Right Velocity vs Yaw Angular Velocity on series 4 to 6



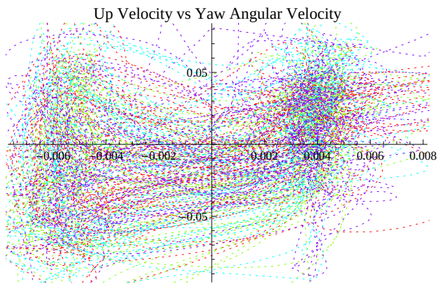
Right Velocity vs Yaw Angular Velocity on series 7 to 9



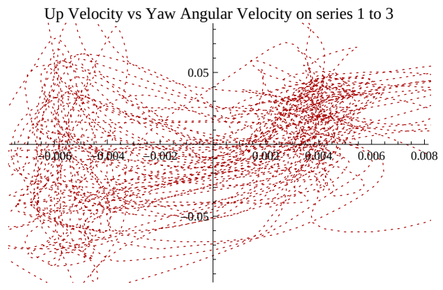
Right Velocity vs Yaw Angular Velocity on series 10 to 12



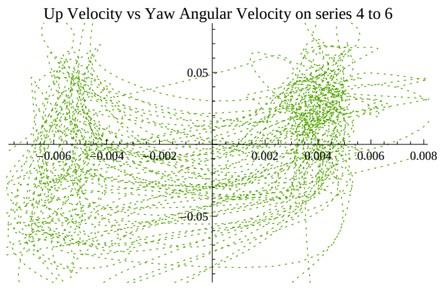
Up Velocity vs Yaw Angular Velocity



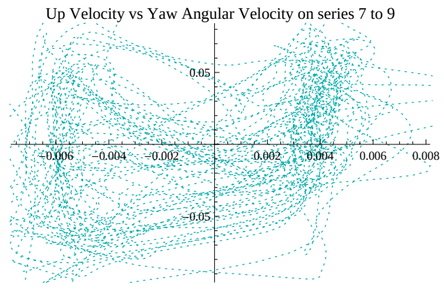
Up Velocity vs Yaw Angular Velocity on series 1 to 3



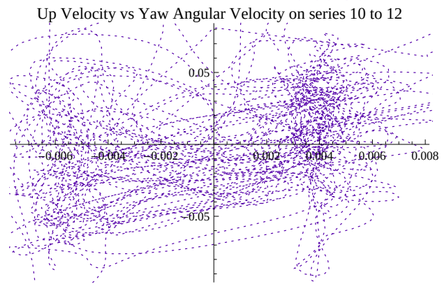
Up Velocity vs Yaw Angular Velocity on series 4 to 6



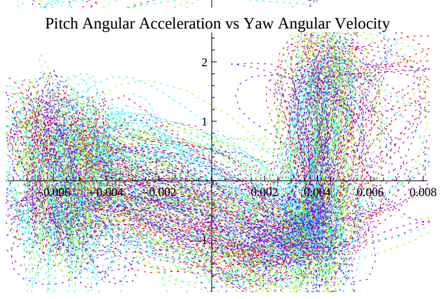
Up Velocity vs Yaw Angular Velocity on series 7 to 9



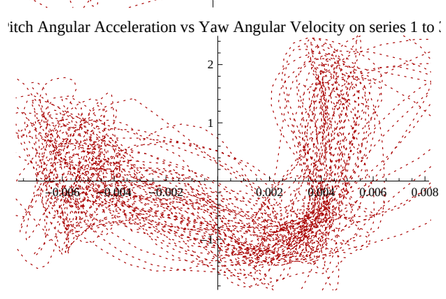
Up Velocity vs Yaw Angular Velocity on series 10 to 12



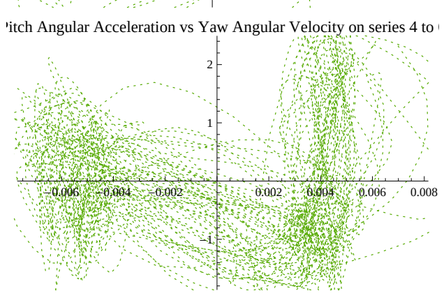
Pitch Angular Acceleration vs Yaw Angular Velocity



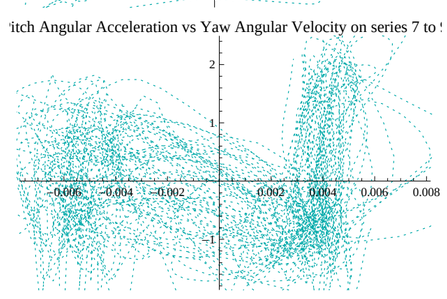
Pitch Angular Acceleration vs Yaw Angular Velocity on series 1 to 3



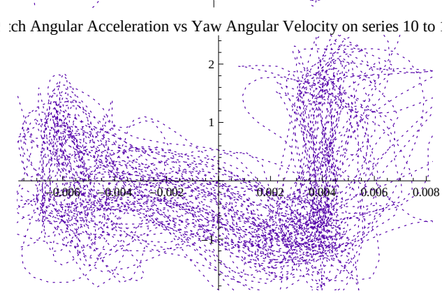
Pitch Angular Acceleration vs Yaw Angular Velocity on series 4 to 6



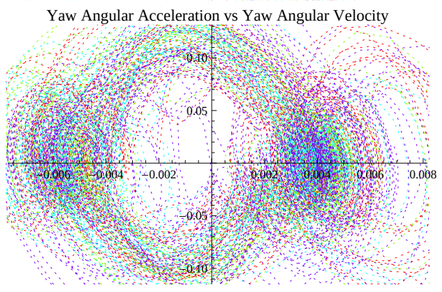
Pitch Angular Acceleration vs Yaw Angular Velocity on series 7 to 9



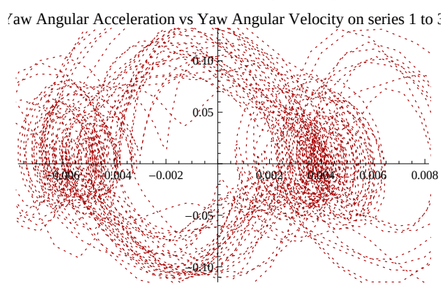
Pitch Angular Acceleration vs Yaw Angular Velocity on series 10 to 12



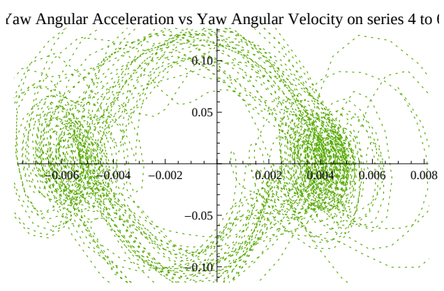
Yaw Angular Acceleration vs Yaw Angular Velocity



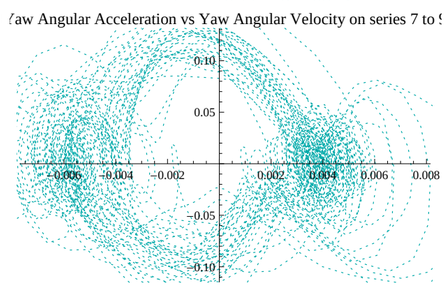
Yaw Angular Acceleration vs Yaw Angular Velocity on series 1 to 3



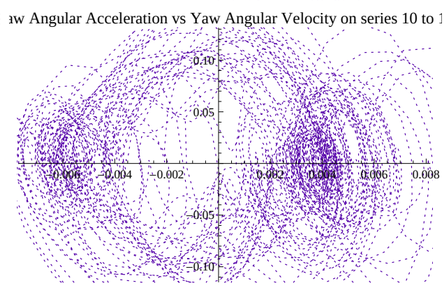
Yaw Angular Acceleration vs Yaw Angular Velocity on series 4 to 6



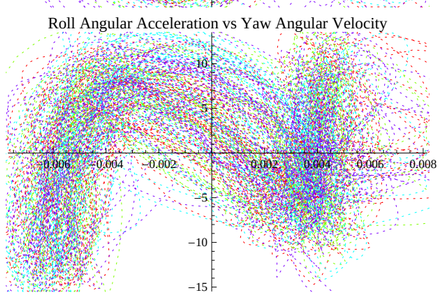
Yaw Angular Acceleration vs Yaw Angular Velocity on series 7 to 9



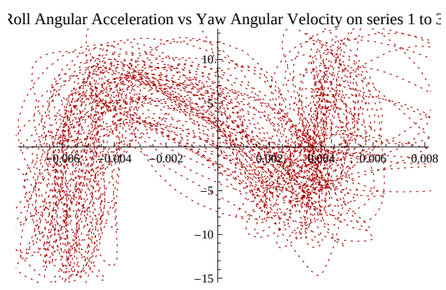
Yaw Angular Acceleration vs Yaw Angular Velocity on series 10 to 12



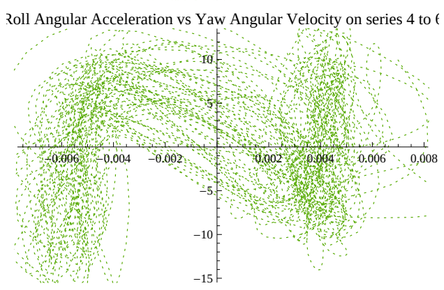
Roll Angular Acceleration vs Yaw Angular Velocity



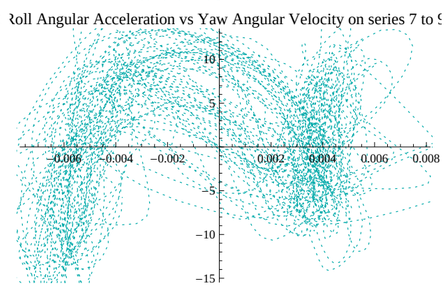
Roll Angular Acceleration vs Yaw Angular Velocity on series 1 to 3



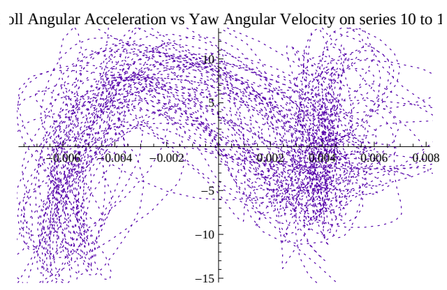
Roll Angular Acceleration vs Yaw Angular Velocity on series 4 to 6



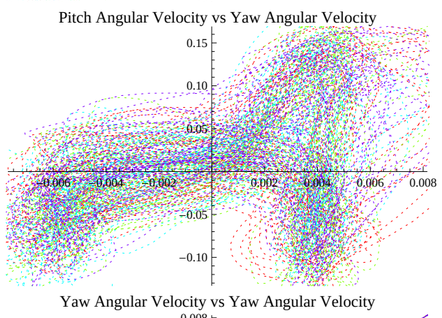
Roll Angular Acceleration vs Yaw Angular Velocity on series 7 to 9



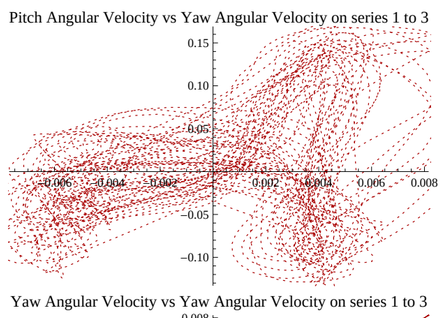
Roll Angular Acceleration vs Yaw Angular Velocity on series 10 to 12



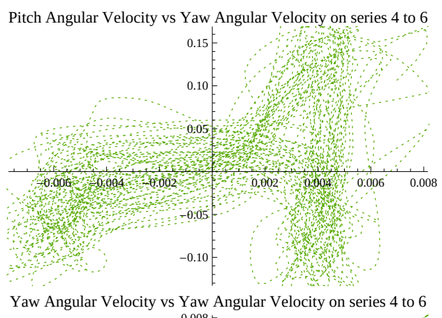
Pitch Angular Velocity vs Yaw Angular Velocity



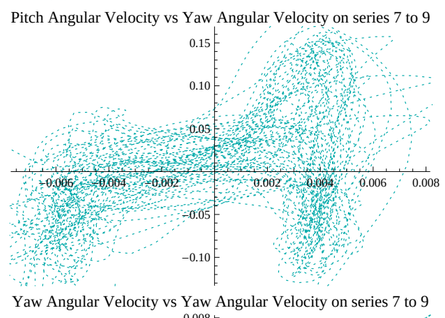
Pitch Angular Velocity vs Yaw Angular Velocity on series 1 to 3



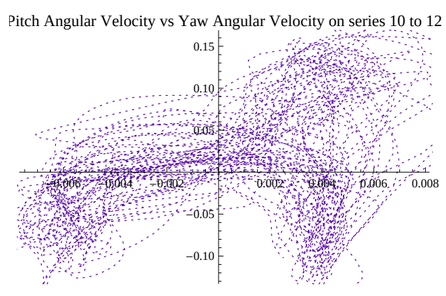
Pitch Angular Velocity vs Yaw Angular Velocity on series 4 to 6



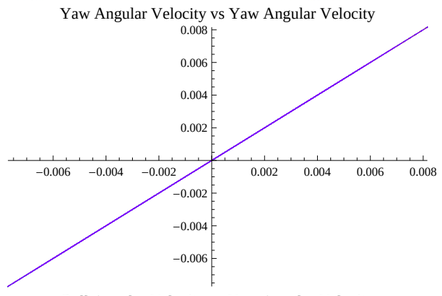
Pitch Angular Velocity vs Yaw Angular Velocity on series 7 to 9



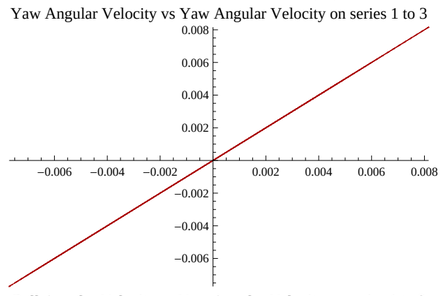
Pitch Angular Velocity vs Yaw Angular Velocity on series 10 to 12



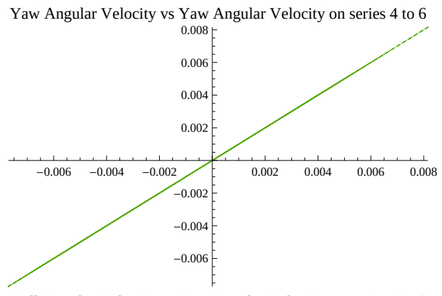
Yaw Angular Velocity vs Yaw Angular Velocity



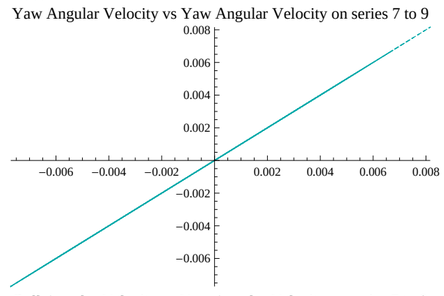
Yaw Angular Velocity vs Yaw Angular Velocity on series 1 to 3



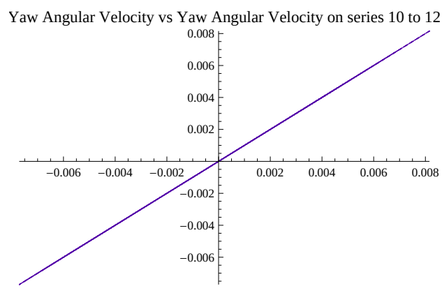
Yaw Angular Velocity vs Yaw Angular Velocity on series 4 to 6



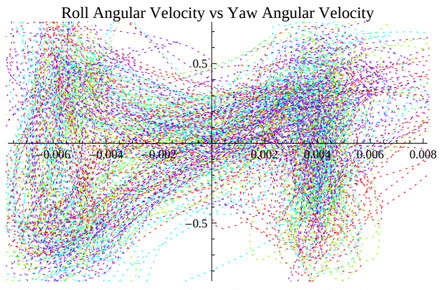
Yaw Angular Velocity vs Yaw Angular Velocity on series 7 to 9



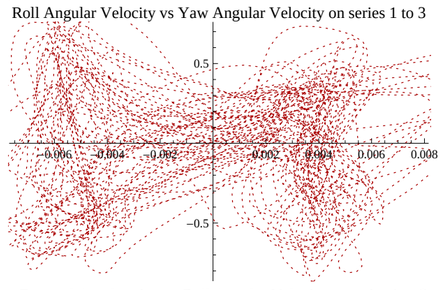
Yaw Angular Velocity vs Yaw Angular Velocity on series 10 to 12



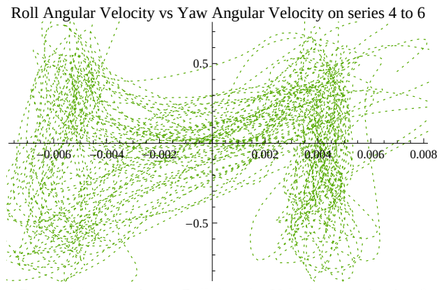
Roll Angular Velocity vs Yaw Angular Velocity



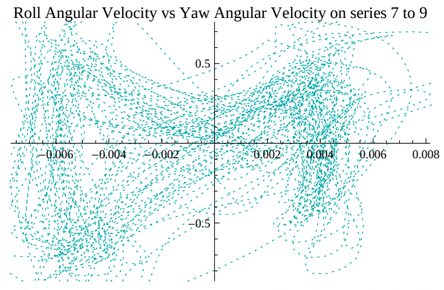
Roll Angular Velocity vs Yaw Angular Velocity on series 1 to 3



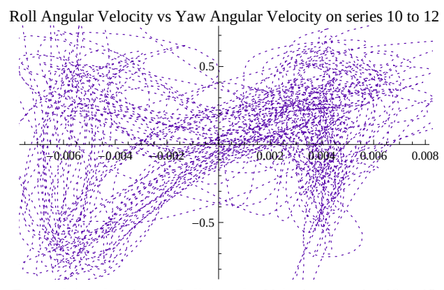
Roll Angular Velocity vs Yaw Angular Velocity on series 4 to 6



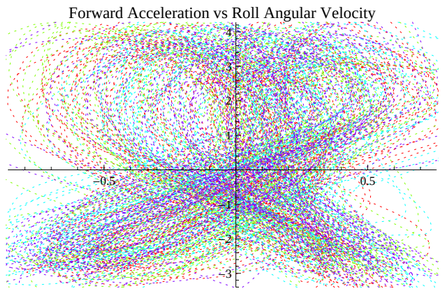
Roll Angular Velocity vs Yaw Angular Velocity on series 7 to 9



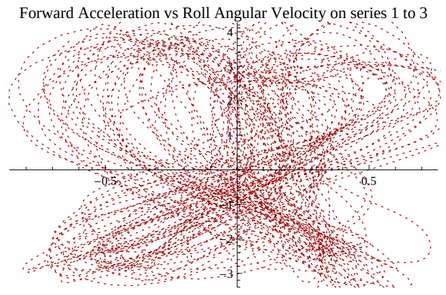
Roll Angular Velocity vs Yaw Angular Velocity on series 10 to 12



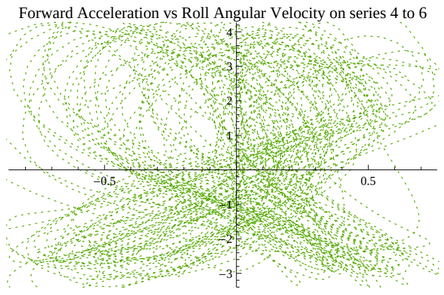
Forward Acceleration vs Roll Angular Velocity



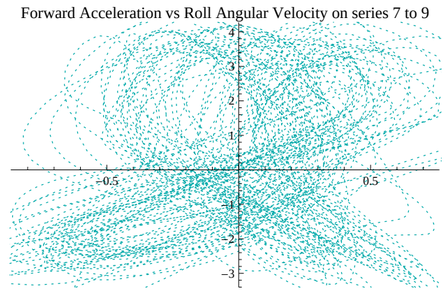
Forward Acceleration vs Roll Angular Velocity on series 1 to 3



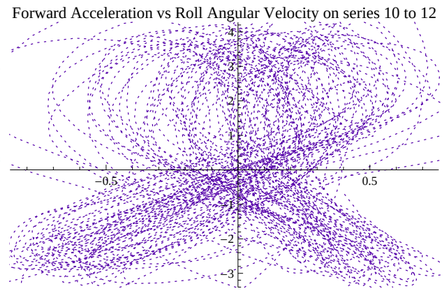
Forward Acceleration vs Roll Angular Velocity on series 4 to 6



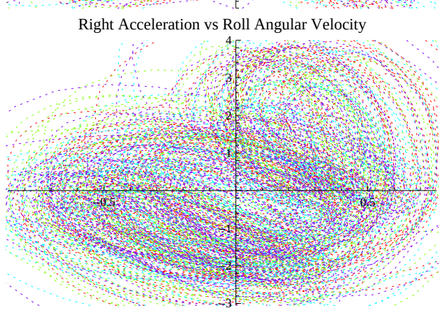
Forward Acceleration vs Roll Angular Velocity on series 7 to 9



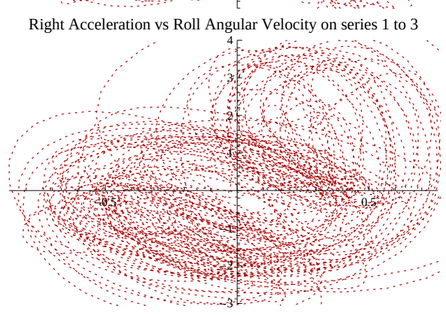
Forward Acceleration vs Roll Angular Velocity on series 10 to 12



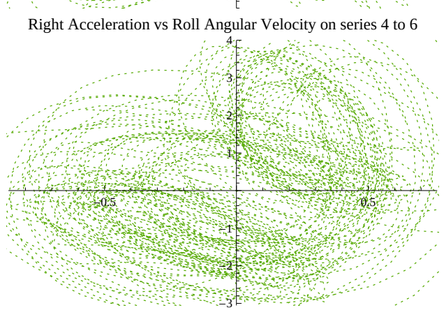
Right Acceleration vs Roll Angular Velocity



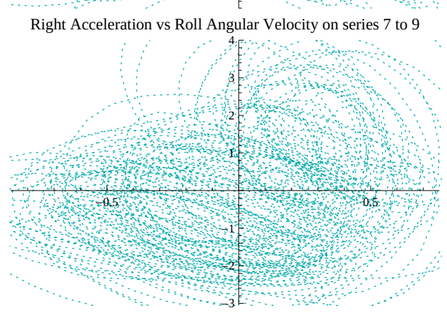
Right Acceleration vs Roll Angular Velocity on series 1 to 3



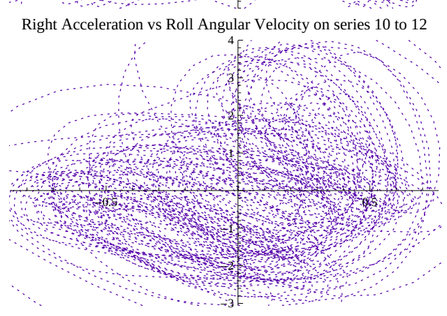
Right Acceleration vs Roll Angular Velocity on series 4 to 6



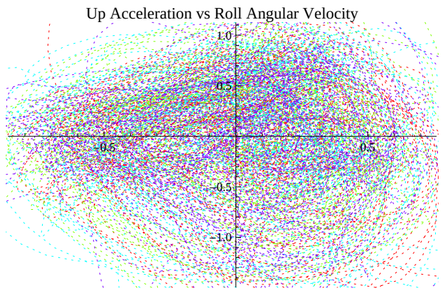
Right Acceleration vs Roll Angular Velocity on series 7 to 9



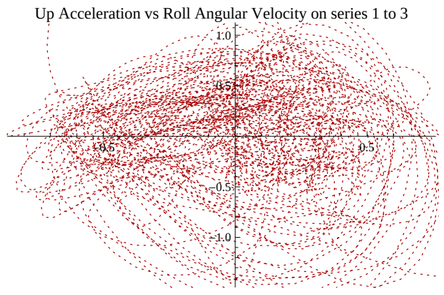
Right Acceleration vs Roll Angular Velocity on series 10 to 12



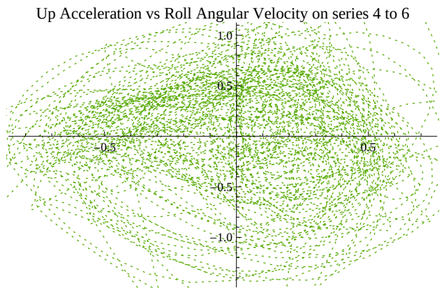
Up Acceleration vs Roll Angular Velocity



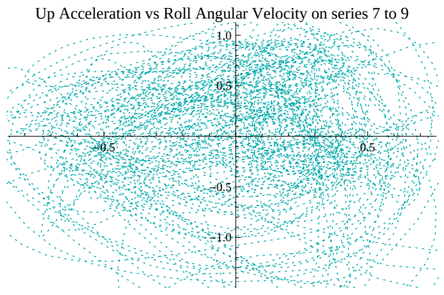
Up Acceleration vs Roll Angular Velocity on series 1 to 3



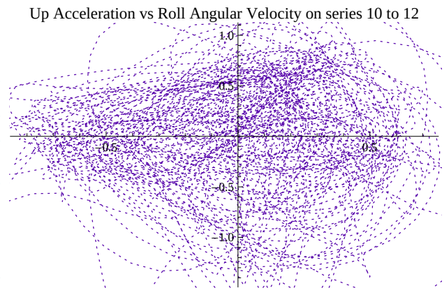
Up Acceleration vs Roll Angular Velocity on series 4 to 6



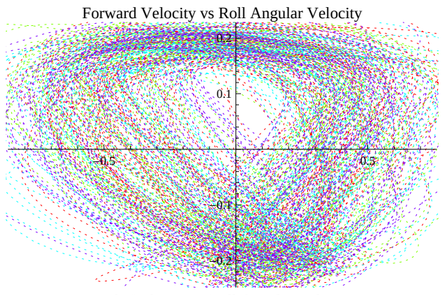
Up Acceleration vs Roll Angular Velocity on series 7 to 9



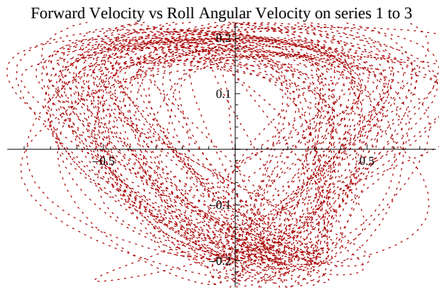
Up Acceleration vs Roll Angular Velocity on series 10 to 12



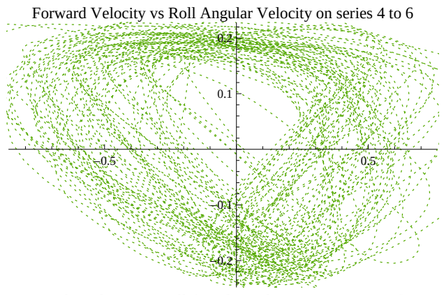
Forward Velocity vs Roll Angular Velocity



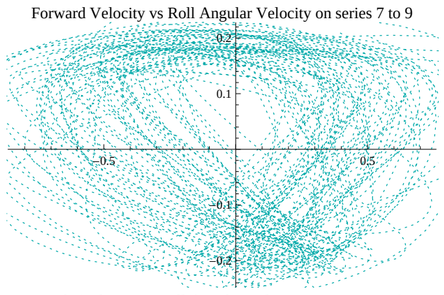
Forward Velocity vs Roll Angular Velocity on series 1 to 3



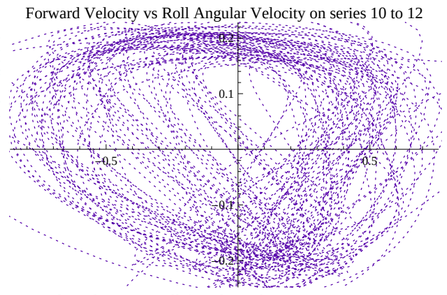
Forward Velocity vs Roll Angular Velocity on series 4 to 6



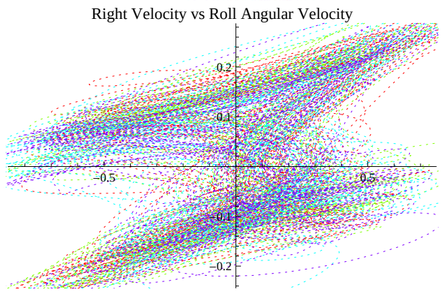
Forward Velocity vs Roll Angular Velocity on series 7 to 9



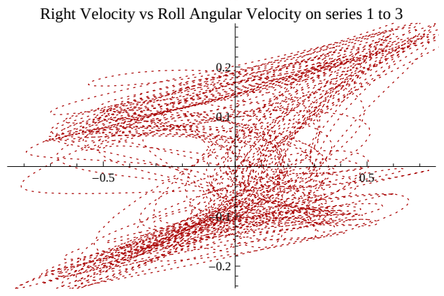
Forward Velocity vs Roll Angular Velocity on series 10 to 12



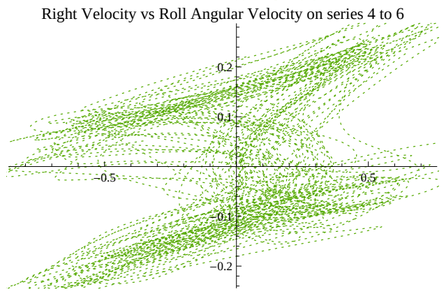
Right Velocity vs Roll Angular Velocity



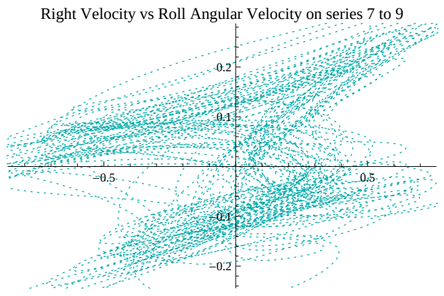
Right Velocity vs Roll Angular Velocity on series 1 to 3



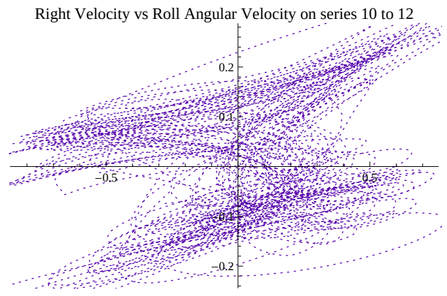
Right Velocity vs Roll Angular Velocity on series 4 to 6



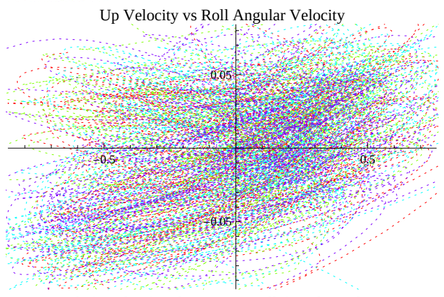
Right Velocity vs Roll Angular Velocity on series 7 to 9



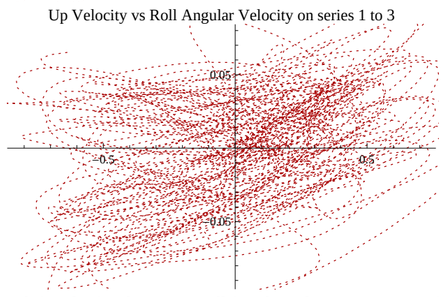
Right Velocity vs Roll Angular Velocity on series 10 to 12



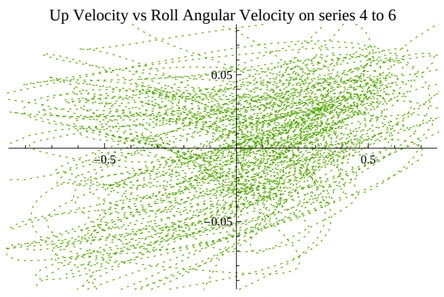
Up Velocity vs Roll Angular Velocity



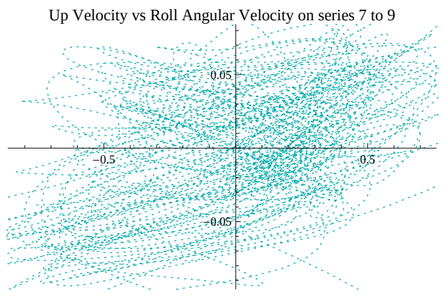
Up Velocity vs Roll Angular Velocity on series 1 to 3



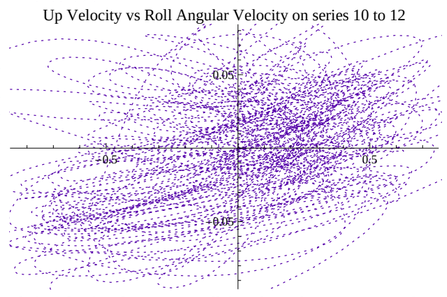
Up Velocity vs Roll Angular Velocity on series 4 to 6



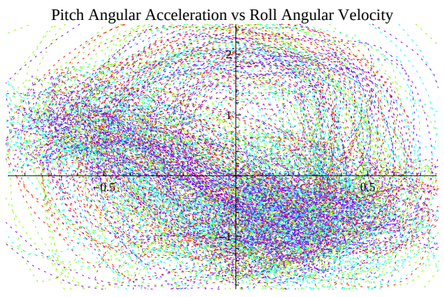
Up Velocity vs Roll Angular Velocity on series 7 to 9



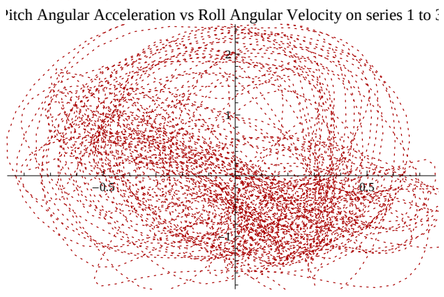
Up Velocity vs Roll Angular Velocity on series 10 to 12



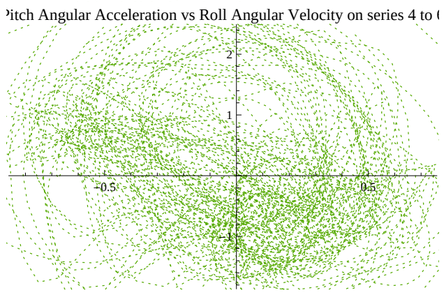
Pitch Angular Acceleration vs Roll Angular Velocity



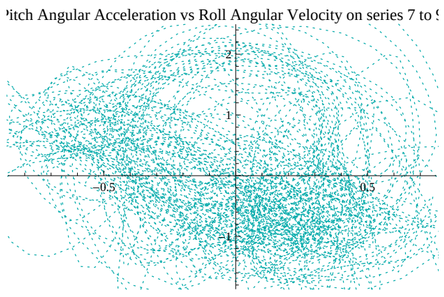
Pitch Angular Acceleration vs Roll Angular Velocity on series 1 to 3



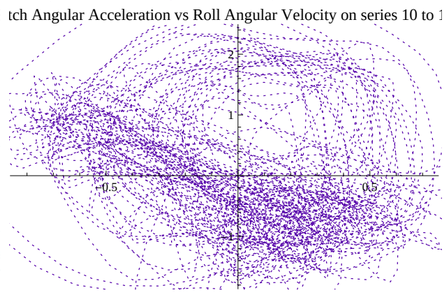
Pitch Angular Acceleration vs Roll Angular Velocity on series 4 to 6



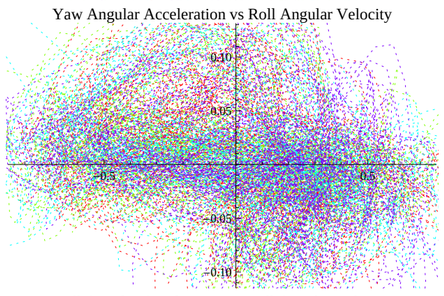
Pitch Angular Acceleration vs Roll Angular Velocity on series 7 to 9



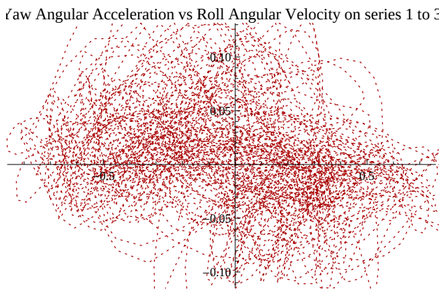
Pitch Angular Acceleration vs Roll Angular Velocity on series 10 to 12



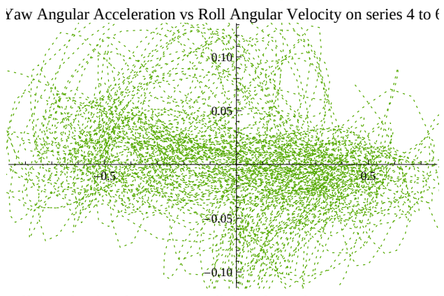
Yaw Angular Acceleration vs Roll Angular Velocity



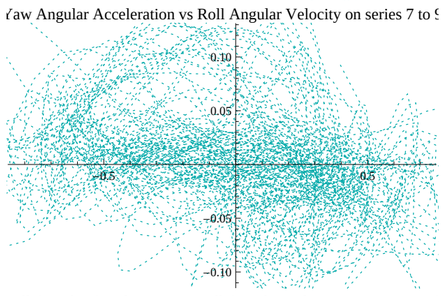
Yaw Angular Acceleration vs Roll Angular Velocity on series 1 to 3



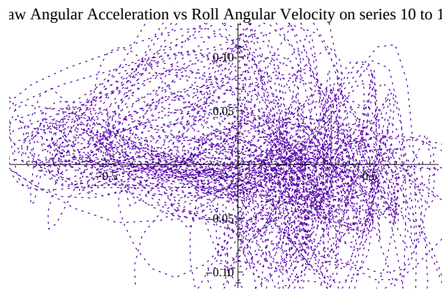
Yaw Angular Acceleration vs Roll Angular Velocity on series 4 to 6



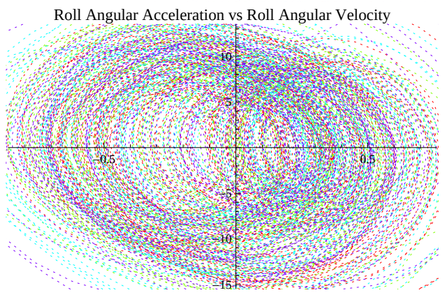
Yaw Angular Acceleration vs Roll Angular Velocity on series 7 to 9



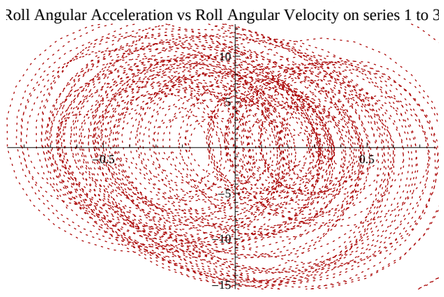
Yaw Angular Acceleration vs Roll Angular Velocity on series 10 to 12



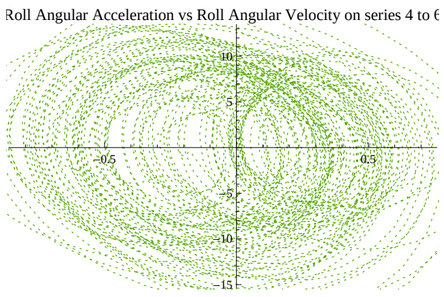
Roll Angular Acceleration vs Roll Angular Velocity



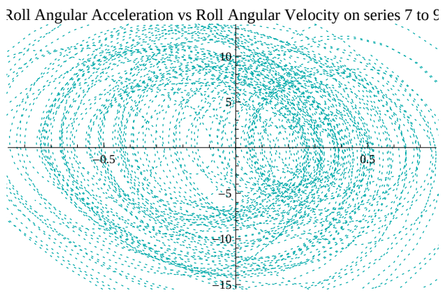
Roll Angular Acceleration vs Roll Angular Velocity on series 1 to 3



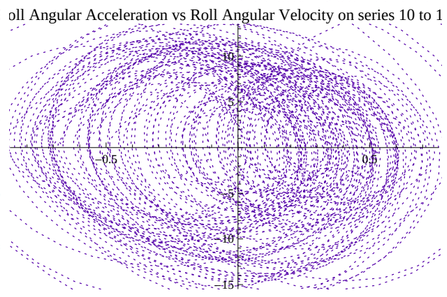
Roll Angular Acceleration vs Roll Angular Velocity on series 4 to 6



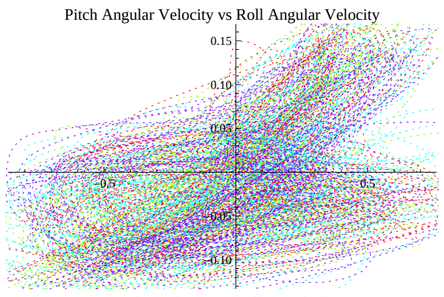
Roll Angular Acceleration vs Roll Angular Velocity on series 7 to 9



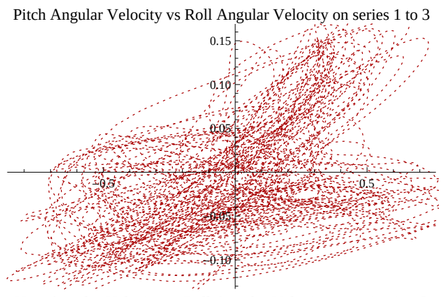
Roll Angular Acceleration vs Roll Angular Velocity on series 10 to 12



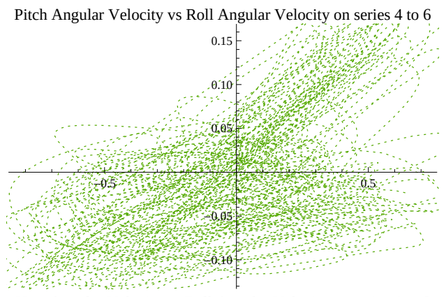
Pitch Angular Velocity vs Roll Angular Velocity



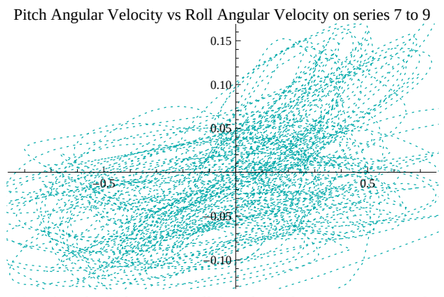
Pitch Angular Velocity vs Roll Angular Velocity on series 1 to 3



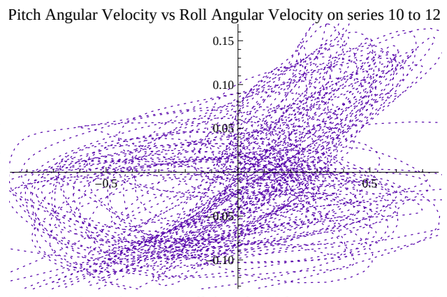
Pitch Angular Velocity vs Roll Angular Velocity on series 4 to 6



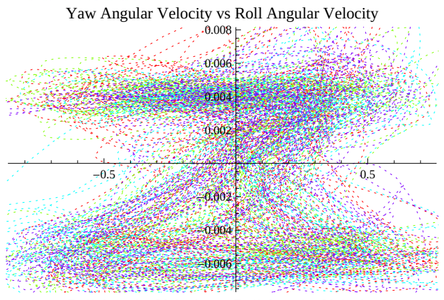
Pitch Angular Velocity vs Roll Angular Velocity on series 7 to 9



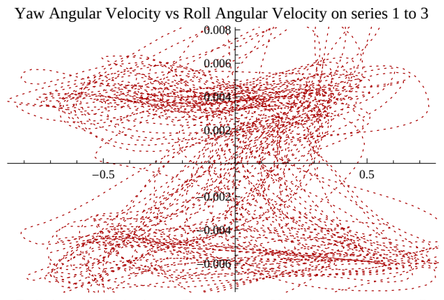
Pitch Angular Velocity vs Roll Angular Velocity on series 10 to 12



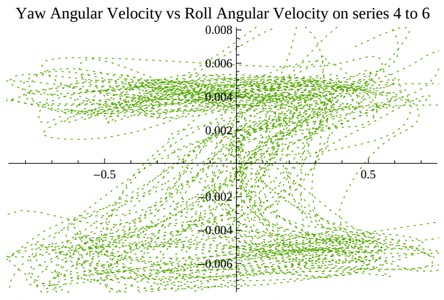
Yaw Angular Velocity vs Roll Angular Velocity



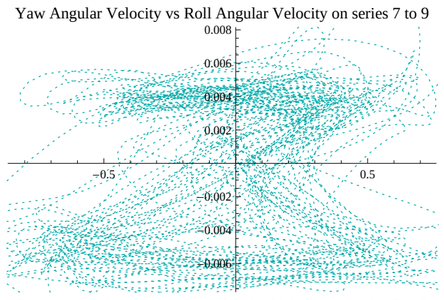
Yaw Angular Velocity vs Roll Angular Velocity on series 1 to 3



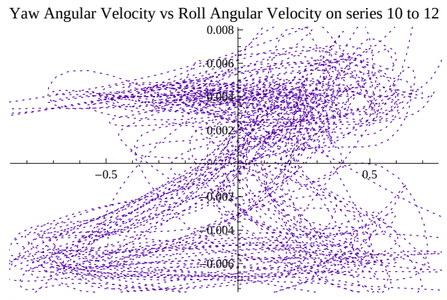
Yaw Angular Velocity vs Roll Angular Velocity on series 4 to 6



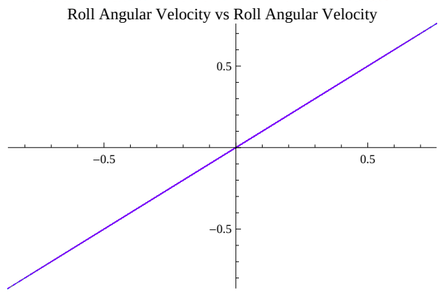
Yaw Angular Velocity vs Roll Angular Velocity on series 7 to 9



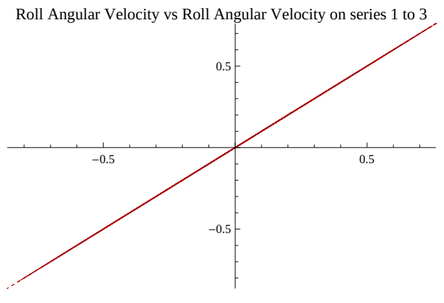
Yaw Angular Velocity vs Roll Angular Velocity on series 10 to 12



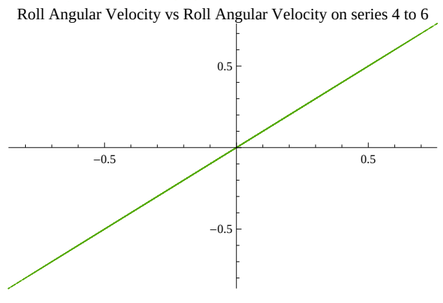
Roll Angular Velocity vs Roll Angular Velocity



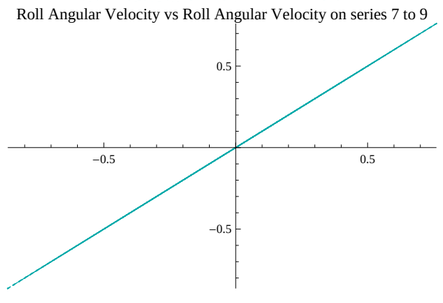
Roll Angular Velocity vs Roll Angular Velocity on series 1 to 3



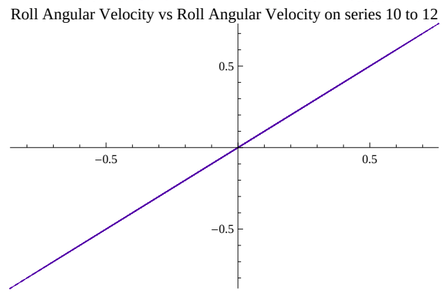
Roll Angular Velocity vs Roll Angular Velocity on series 4 to 6



Roll Angular Velocity vs Roll Angular Velocity on series 7 to 9



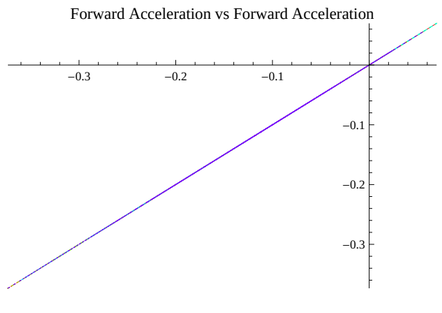
Roll Angular Velocity vs Roll Angular Velocity on series 10 to 12



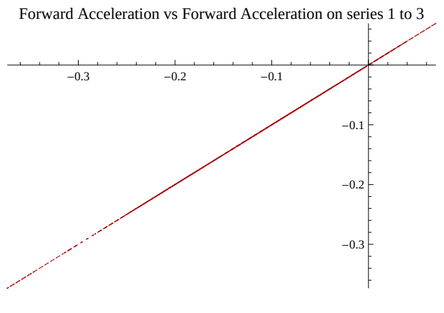
Low frequency pair correlations

Ce tableau présente les corrélations sur les données à basse fréquence, entre 0.2Hz et 2Hz

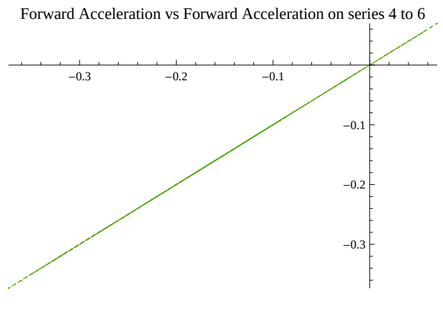
Forward Acceleration vs Forward Acceleration



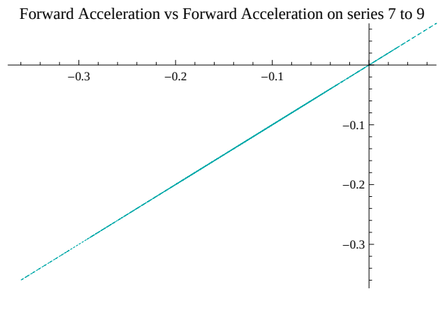
Forward Acceleration vs Forward Acceleration on series 1 to 3



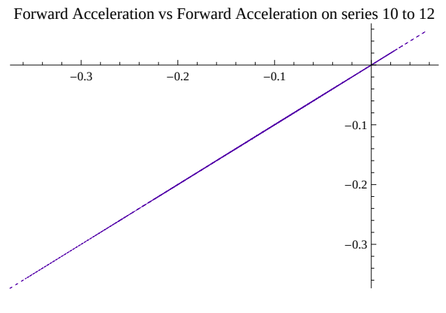
Forward Acceleration vs Forward Acceleration on series 4 to 6



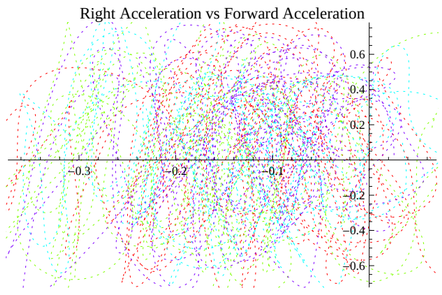
Forward Acceleration vs Forward Acceleration on series 7 to 9



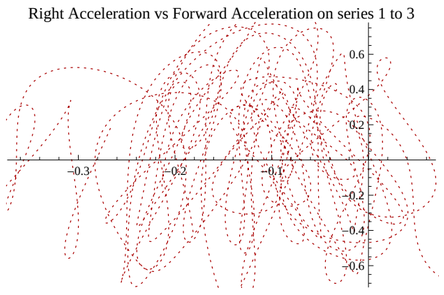
Forward Acceleration vs Forward Acceleration on series 10 to 12



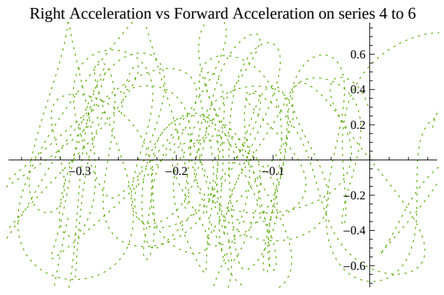
Right Acceleration vs Forward Acceleration



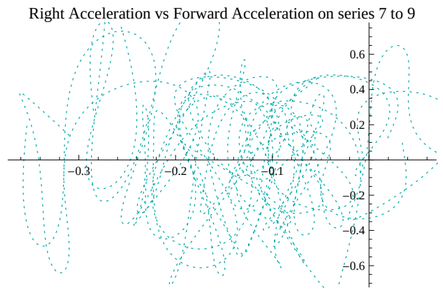
Right Acceleration vs Forward Acceleration on series 1 to 3



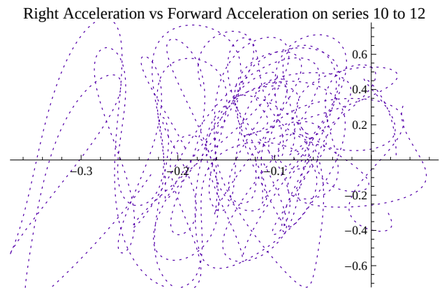
Right Acceleration vs Forward Acceleration on series 4 to 6



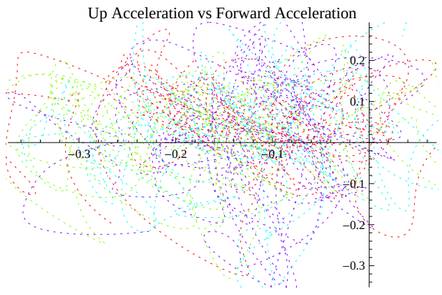
Right Acceleration vs Forward Acceleration on series 7 to 9



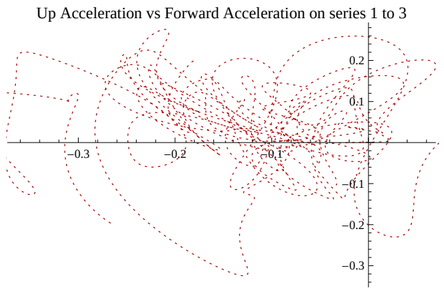
Right Acceleration vs Forward Acceleration on series 10 to 12



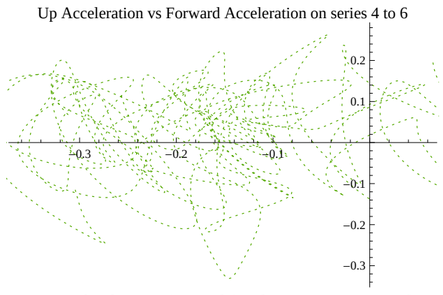
Up Acceleration vs Forward Acceleration



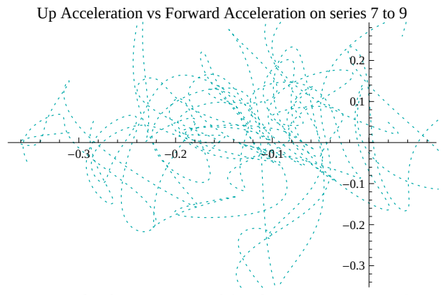
Up Acceleration vs Forward Acceleration on series 1 to 3



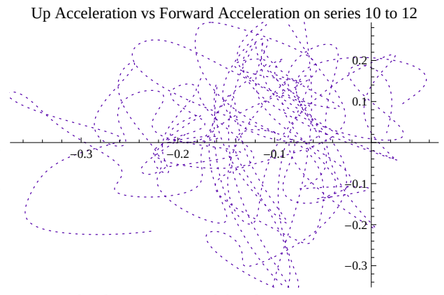
Up Acceleration vs Forward Acceleration on series 4 to 6



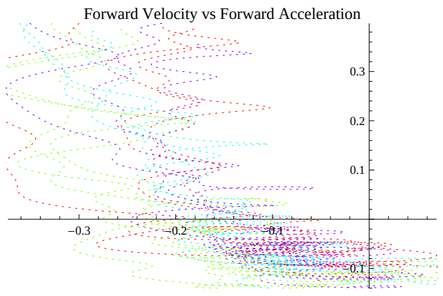
Up Acceleration vs Forward Acceleration on series 7 to 9



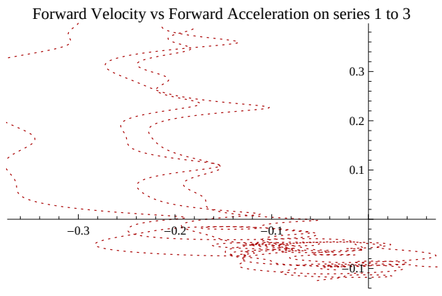
Up Acceleration vs Forward Acceleration on series 10 to 12



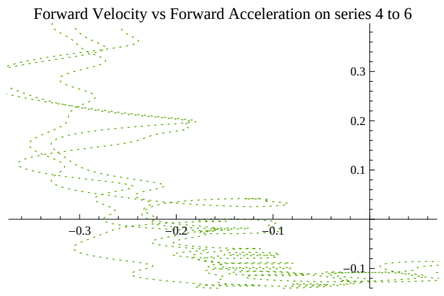
Forward Velocity vs Forward Acceleration



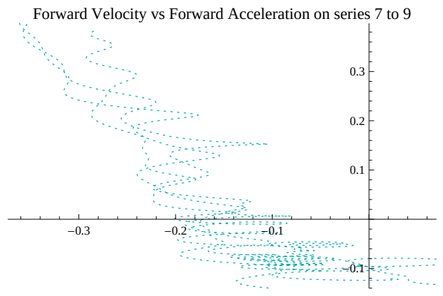
Forward Velocity vs Forward Acceleration on series 1 to 3



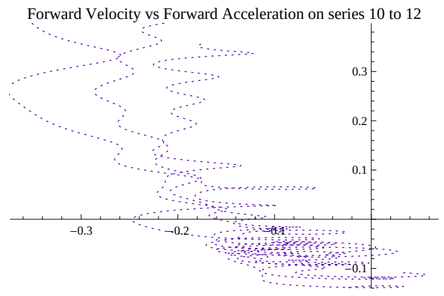
Forward Velocity vs Forward Acceleration on series 4 to 6



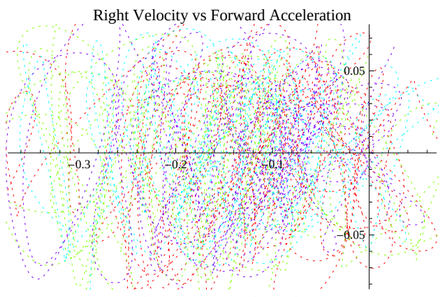
Forward Velocity vs Forward Acceleration on series 7 to 9



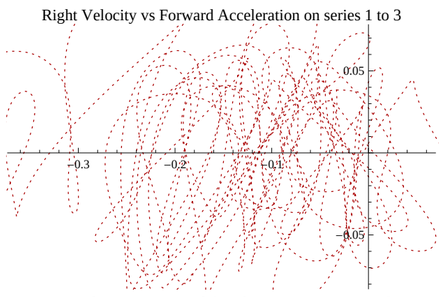
Forward Velocity vs Forward Acceleration on series 10 to 12



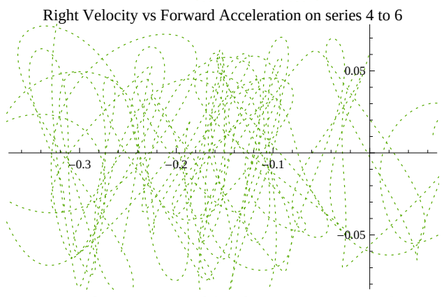
Right Velocity vs Forward Acceleration



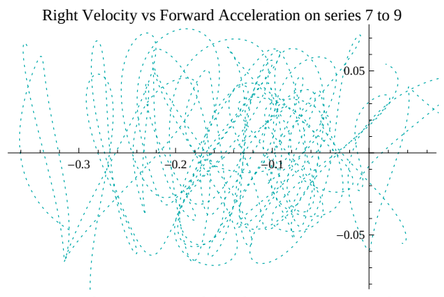
Right Velocity vs Forward Acceleration on series 1 to 3



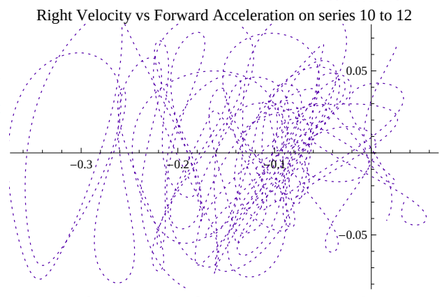
Right Velocity vs Forward Acceleration on series 4 to 6



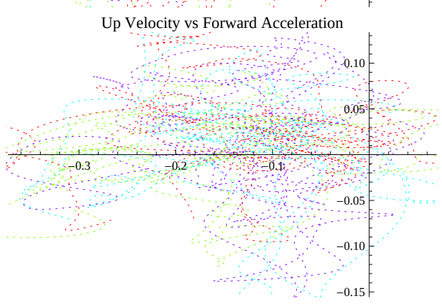
Right Velocity vs Forward Acceleration on series 7 to 9



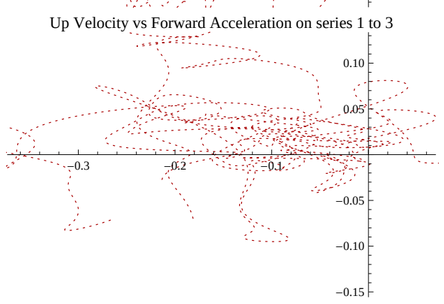
Right Velocity vs Forward Acceleration on series 10 to 12



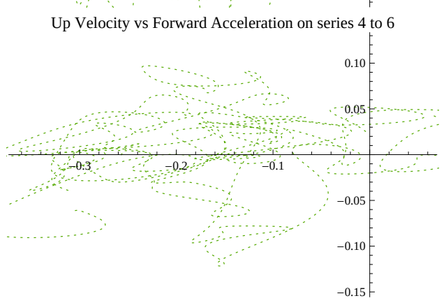
Up Velocity vs Forward Acceleration



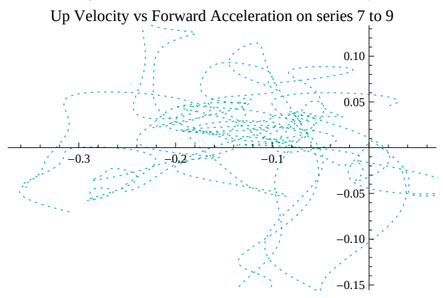
Up Velocity vs Forward Acceleration on series 1 to 3



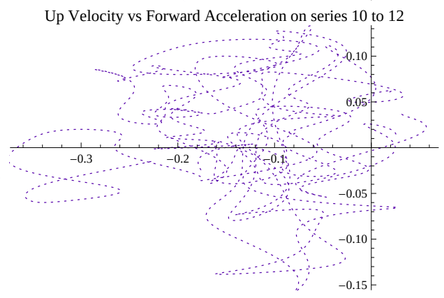
Up Velocity vs Forward Acceleration on series 4 to 6



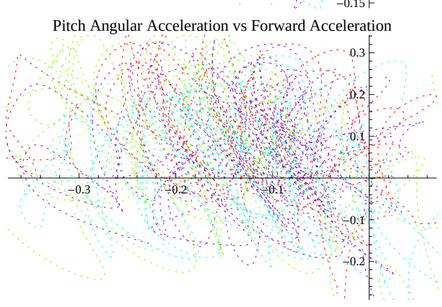
Up Velocity vs Forward Acceleration on series 7 to 9



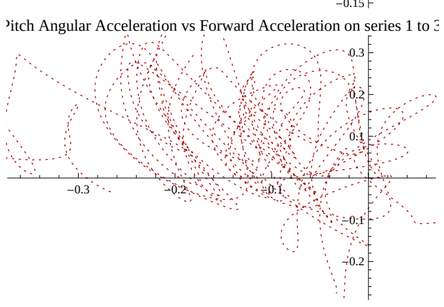
Up Velocity vs Forward Acceleration on series 10 to 12



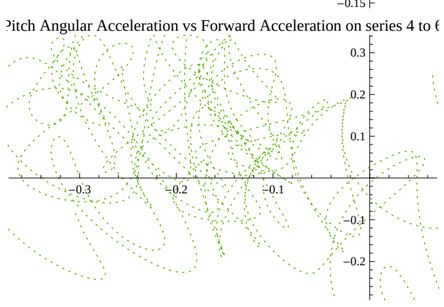
Pitch Angular Acceleration vs Forward Acceleration



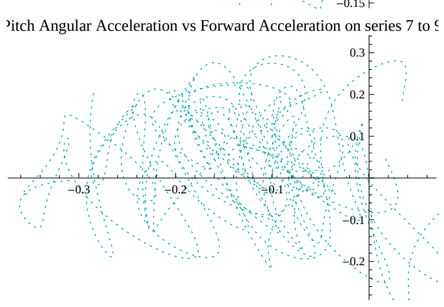
Pitch Angular Acceleration vs Forward Acceleration on series 1 to 3



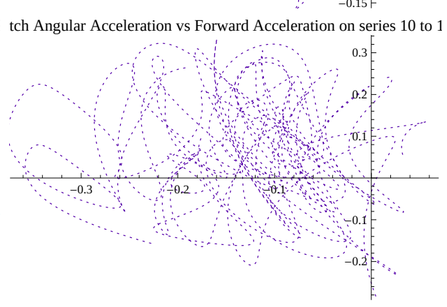
Pitch Angular Acceleration vs Forward Acceleration on series 4 to 6



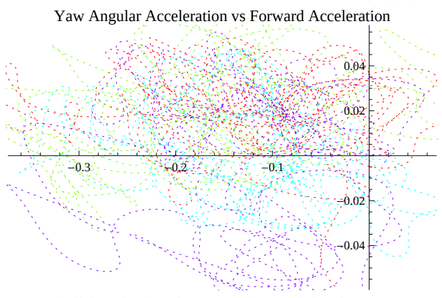
Pitch Angular Acceleration vs Forward Acceleration on series 7 to 9



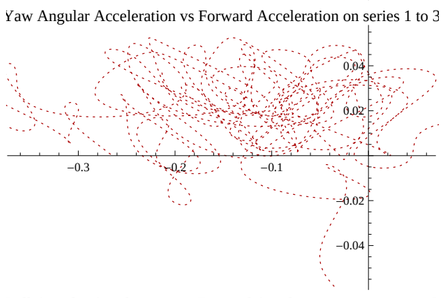
tch Angular Acceleration vs Forward Acceleration on series 10 to 1



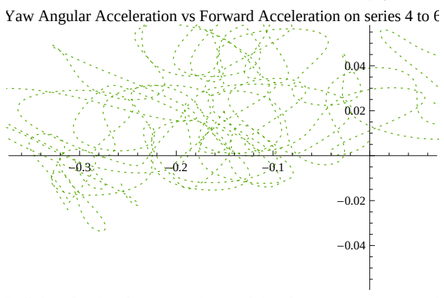
Yaw Angular Acceleration vs Forward Acceleration



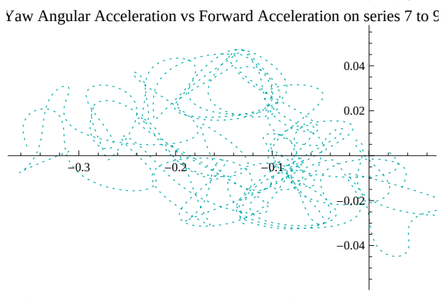
Yaw Angular Acceleration vs Forward Acceleration on series 1 to 3



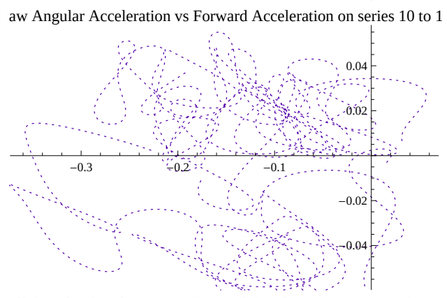
Yaw Angular Acceleration vs Forward Acceleration on series 4 to 6



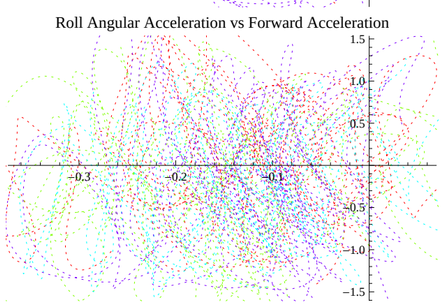
Yaw Angular Acceleration vs Forward Acceleration on series 7 to 9



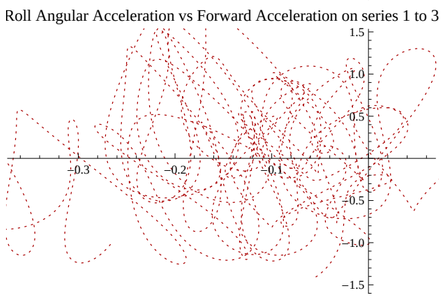
aw Angular Acceleration vs Forward Acceleration on series 10 to 1



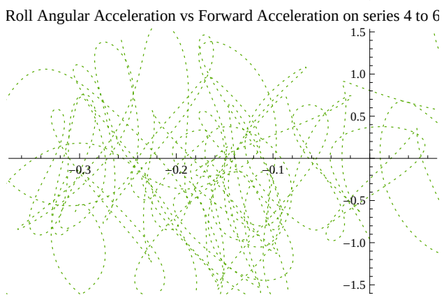
Roll Angular Acceleration vs Forward Acceleration



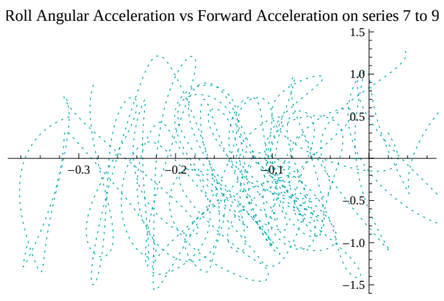
Roll Angular Acceleration vs Forward Acceleration on series 1 to 3



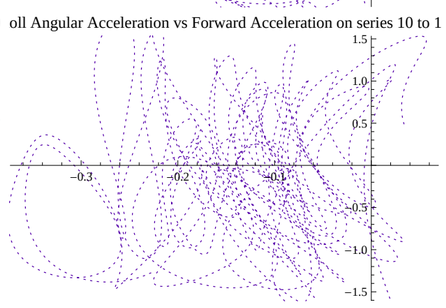
Roll Angular Acceleration vs Forward Acceleration on series 4 to 6



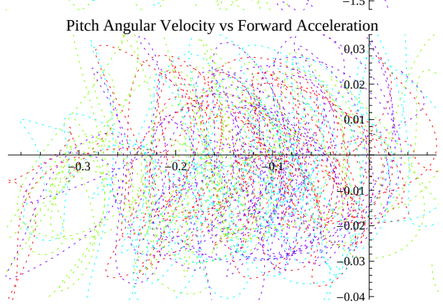
Roll Angular Acceleration vs Forward Acceleration on series 7 to 9



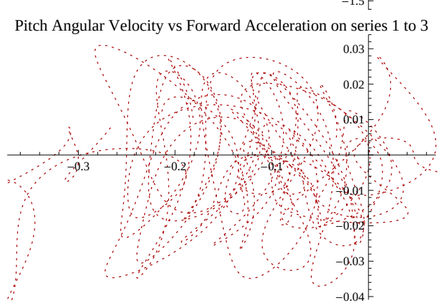
oll Angular Acceleration vs Forward Acceleration on series 10 to 1



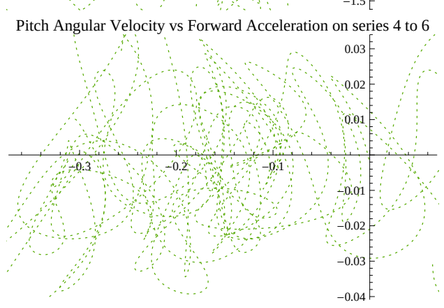
Pitch Angular Velocity vs Forward Acceleration



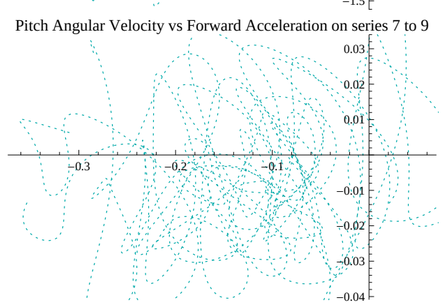
Pitch Angular Velocity vs Forward Acceleration on series 1 to 3



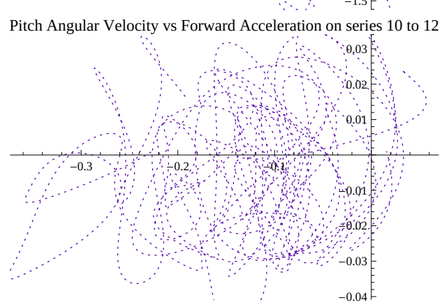
Pitch Angular Velocity vs Forward Acceleration on series 4 to 6



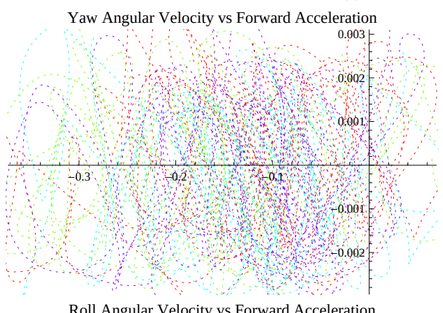
Pitch Angular Velocity vs Forward Acceleration on series 7 to 9



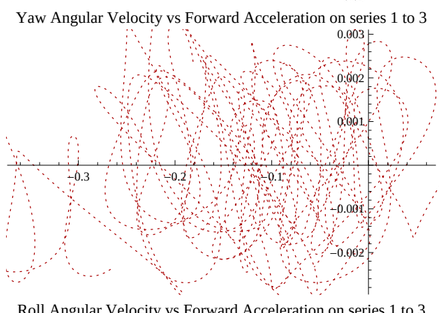
Pitch Angular Velocity vs Forward Acceleration on series 10 to 12



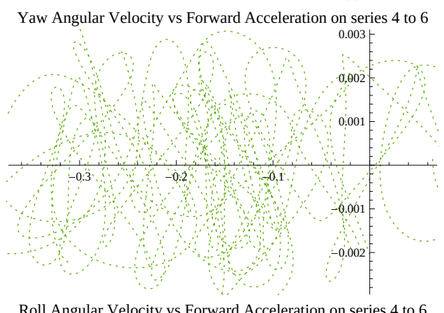
Yaw Angular Velocity vs Forward Acceleration



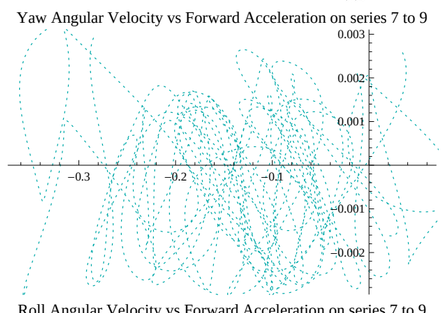
Yaw Angular Velocity vs Forward Acceleration on series 1 to 3



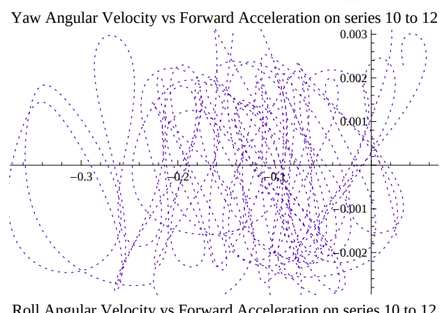
Yaw Angular Velocity vs Forward Acceleration on series 4 to 6



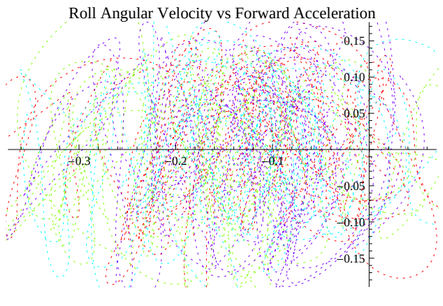
Yaw Angular Velocity vs Forward Acceleration on series 7 to 9



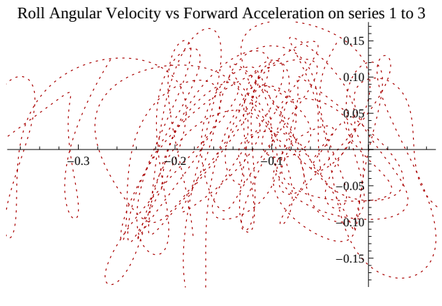
Yaw Angular Velocity vs Forward Acceleration on series 10 to 12



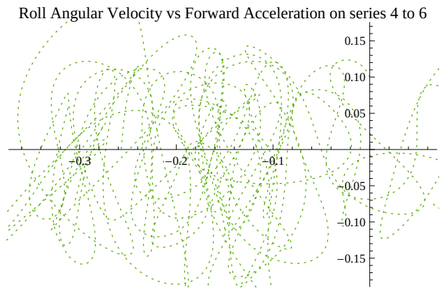
Roll Angular Velocity vs Forward Acceleration



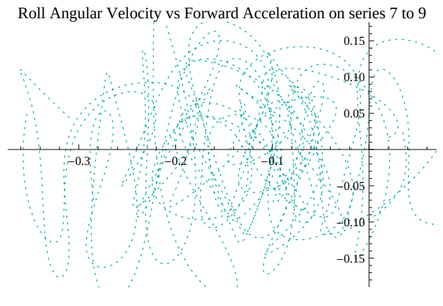
Roll Angular Velocity vs Forward Acceleration on series 1 to 3



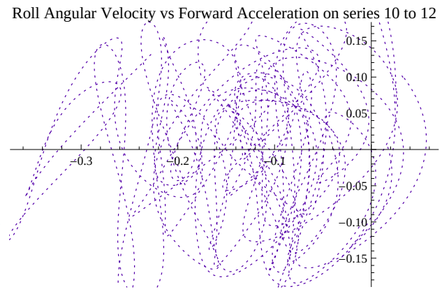
Roll Angular Velocity vs Forward Acceleration on series 4 to 6



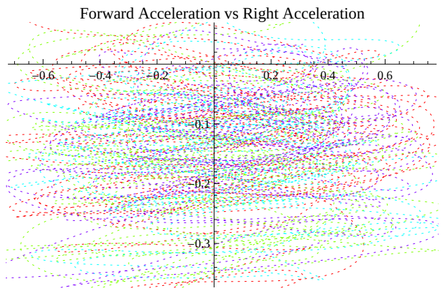
Roll Angular Velocity vs Forward Acceleration on series 7 to 9



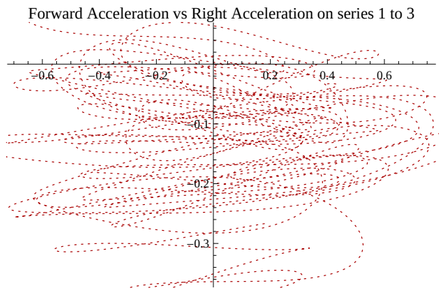
Roll Angular Velocity vs Forward Acceleration on series 10 to 12



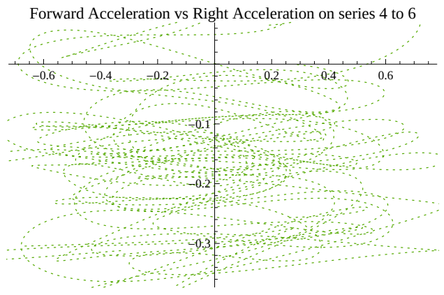
Forward Acceleration vs Right Acceleration



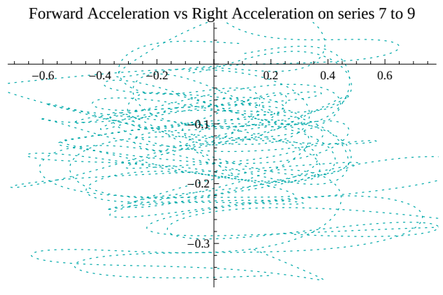
Forward Acceleration vs Right Acceleration on series 1 to 3



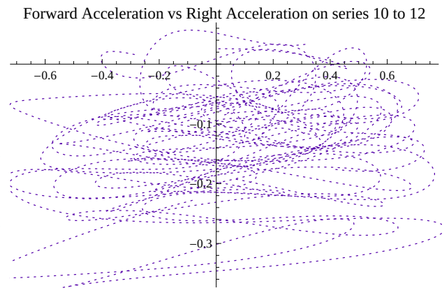
Forward Acceleration vs Right Acceleration on series 4 to 6



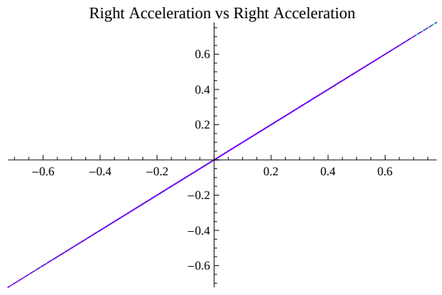
Forward Acceleration vs Right Acceleration on series 7 to 9



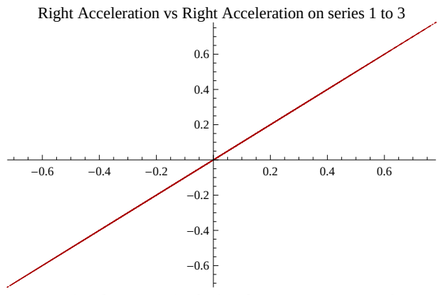
Forward Acceleration vs Right Acceleration on series 10 to 12



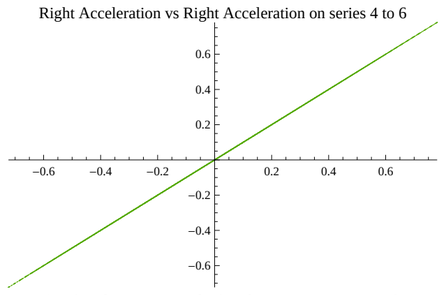
Right Acceleration vs Right Acceleration



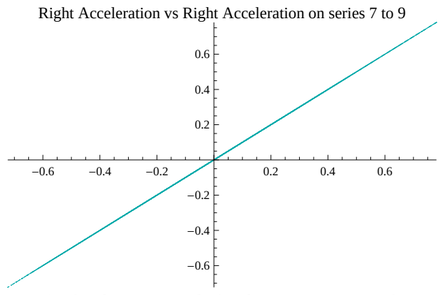
Right Acceleration vs Right Acceleration on series 1 to 3



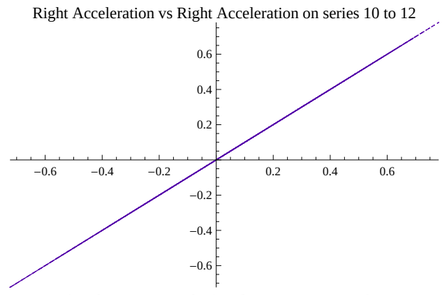
Right Acceleration vs Right Acceleration on series 4 to 6



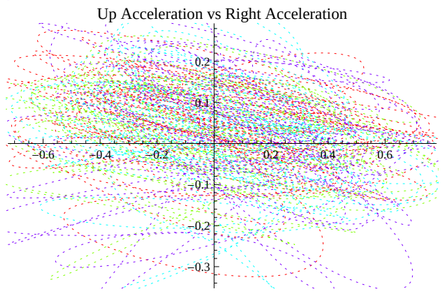
Right Acceleration vs Right Acceleration on series 7 to 9



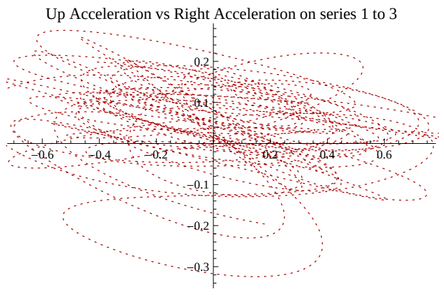
Right Acceleration vs Right Acceleration on series 10 to 12



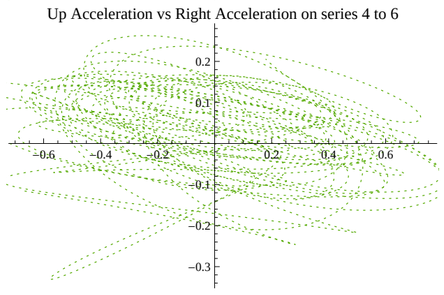
Up Acceleration vs Right Acceleration



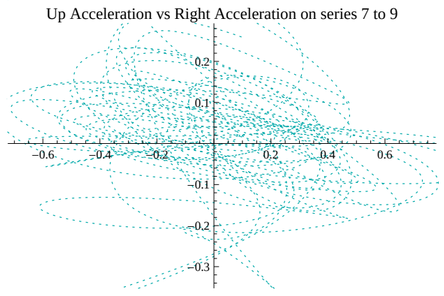
Up Acceleration vs Right Acceleration on series 1 to 3



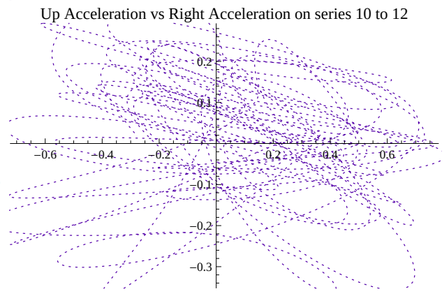
Up Acceleration vs Right Acceleration on series 4 to 6



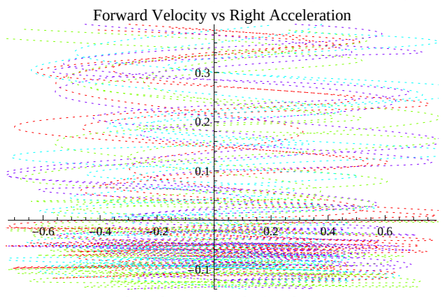
Up Acceleration vs Right Acceleration on series 7 to 9



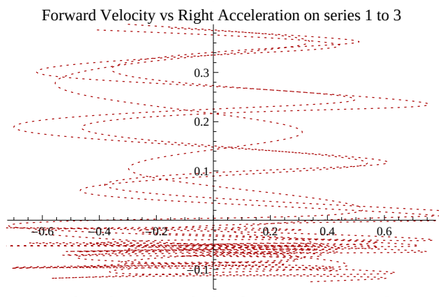
Up Acceleration vs Right Acceleration on series 10 to 12



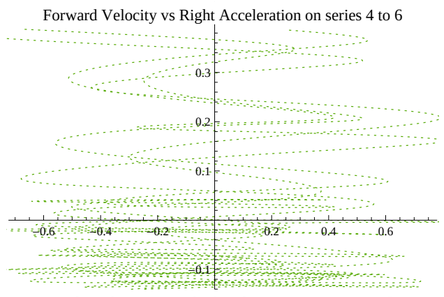
Forward Velocity vs Right Acceleration



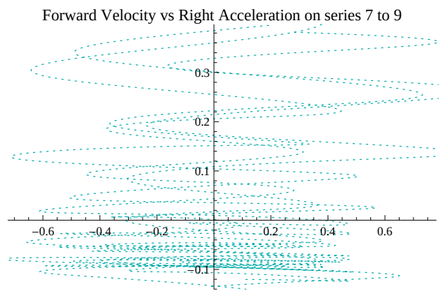
Forward Velocity vs Right Acceleration on series 1 to 3



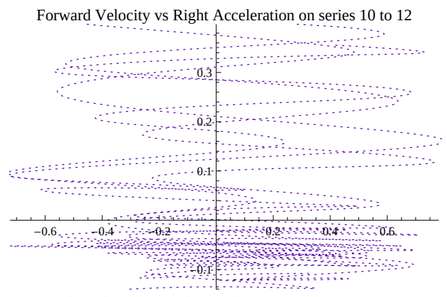
Forward Velocity vs Right Acceleration on series 4 to 6



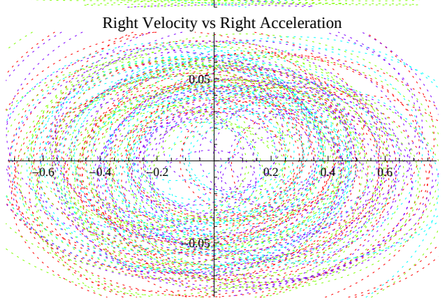
Forward Velocity vs Right Acceleration on series 7 to 9



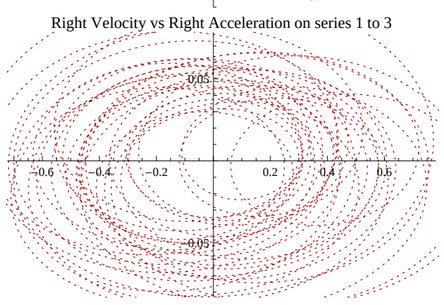
Forward Velocity vs Right Acceleration on series 10 to 12



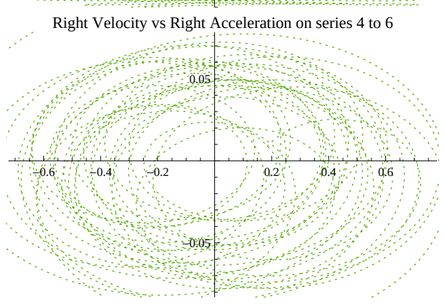
Right Velocity vs Right Acceleration



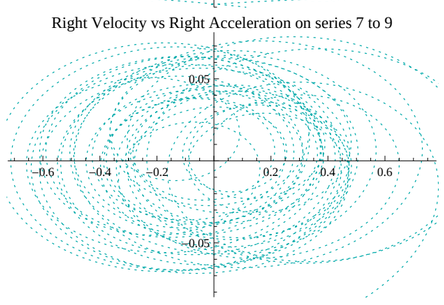
Right Velocity vs Right Acceleration on series 1 to 3



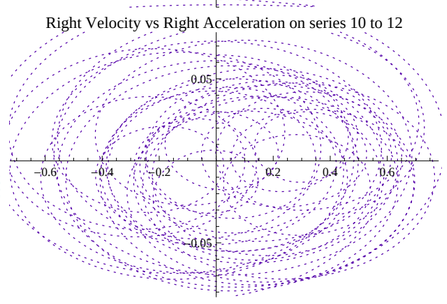
Right Velocity vs Right Acceleration on series 4 to 6



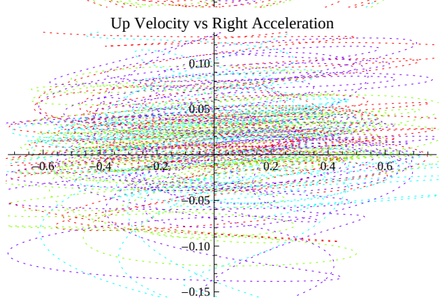
Right Velocity vs Right Acceleration on series 7 to 9



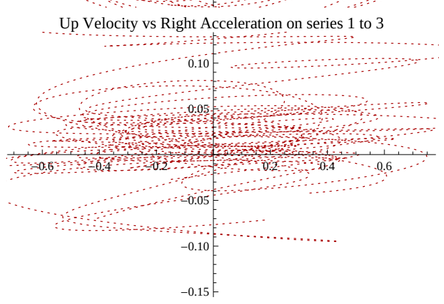
Right Velocity vs Right Acceleration on series 10 to 12



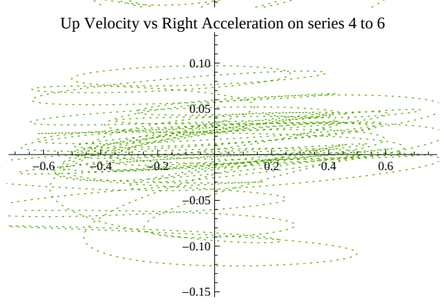
Up Velocity vs Right Acceleration



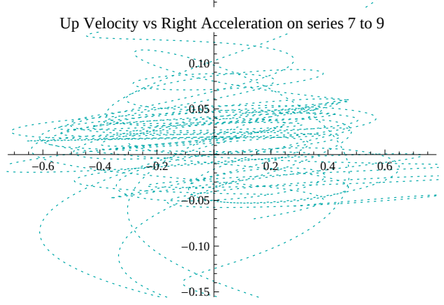
Up Velocity vs Right Acceleration on series 1 to 3



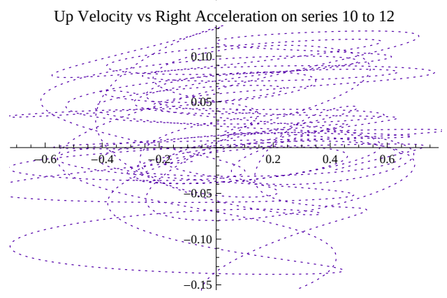
Up Velocity vs Right Acceleration on series 4 to 6



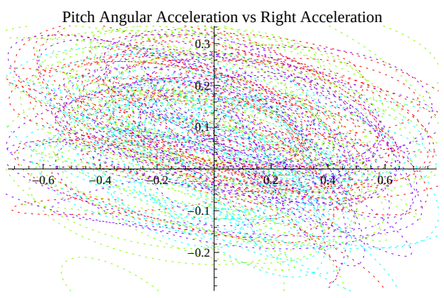
Up Velocity vs Right Acceleration on series 7 to 9



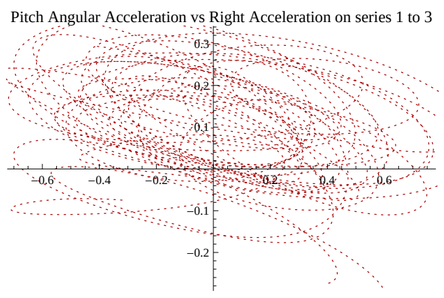
Up Velocity vs Right Acceleration on series 10 to 12



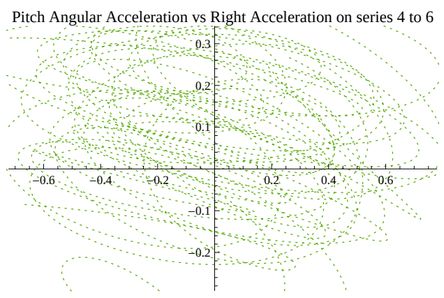
Pitch Angular Acceleration vs Right Acceleration



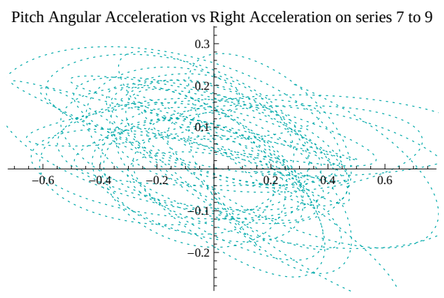
Pitch Angular Acceleration vs Right Acceleration on series 1 to 3



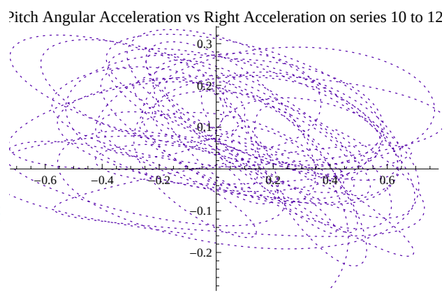
Pitch Angular Acceleration vs Right Acceleration on series 4 to 6



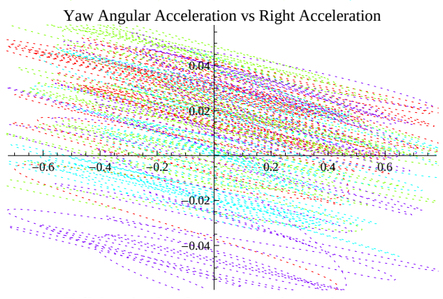
Pitch Angular Acceleration vs Right Acceleration on series 7 to 9



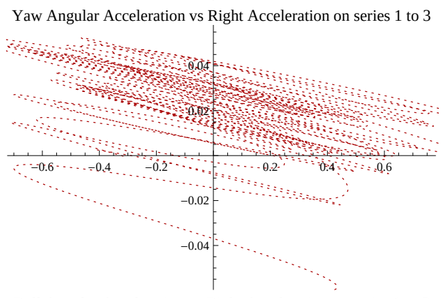
Pitch Angular Acceleration vs Right Acceleration on series 10 to 12



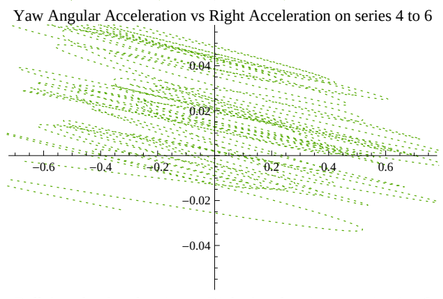
Yaw Angular Acceleration vs Right Acceleration



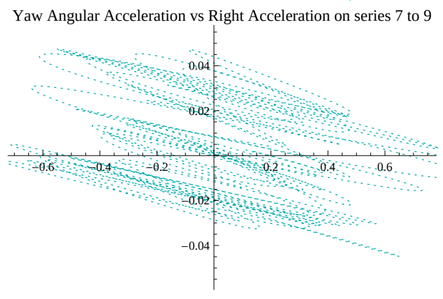
Yaw Angular Acceleration vs Right Acceleration on series 1 to 3



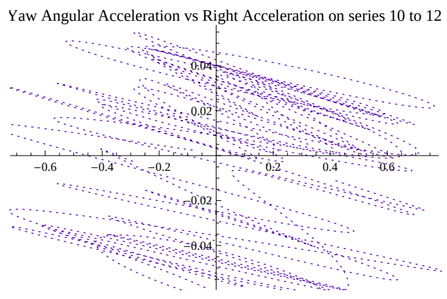
Yaw Angular Acceleration vs Right Acceleration on series 4 to 6



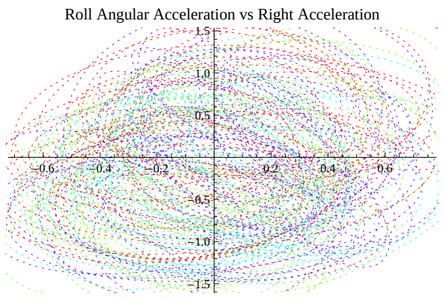
Yaw Angular Acceleration vs Right Acceleration on series 7 to 9



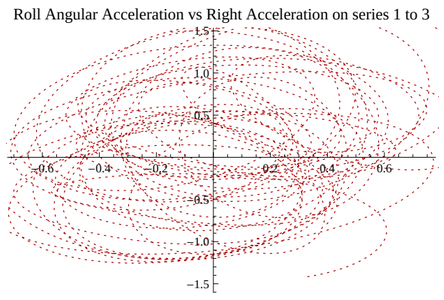
Yaw Angular Acceleration vs Right Acceleration on series 10 to 12



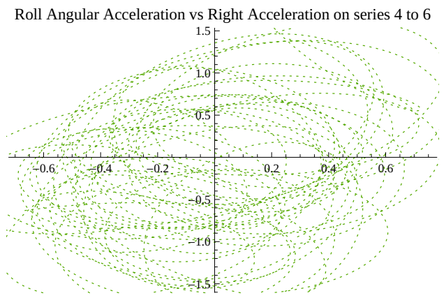
Roll Angular Acceleration vs Right Acceleration



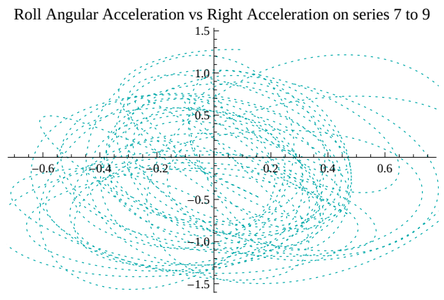
Roll Angular Acceleration vs Right Acceleration on series 1 to 3



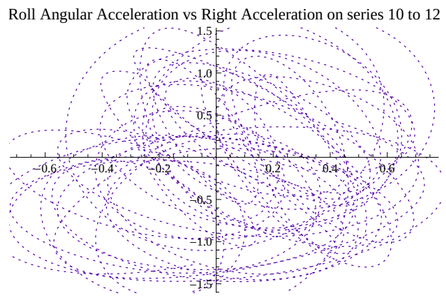
Roll Angular Acceleration vs Right Acceleration on series 4 to 6



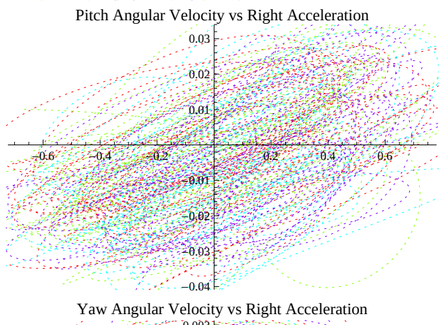
Roll Angular Acceleration vs Right Acceleration on series 7 to 9



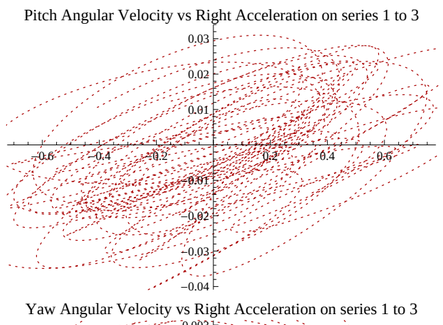
Roll Angular Acceleration vs Right Acceleration on series 10 to 12



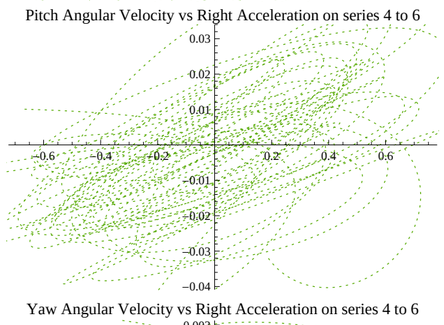
Pitch Angular Velocity vs Right Acceleration



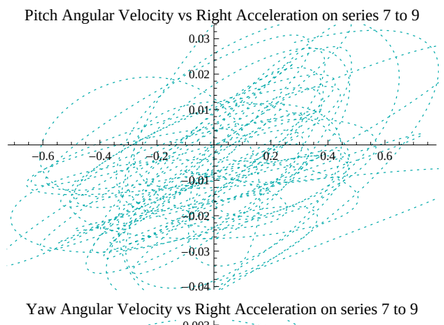
Pitch Angular Velocity vs Right Acceleration on series 1 to 3



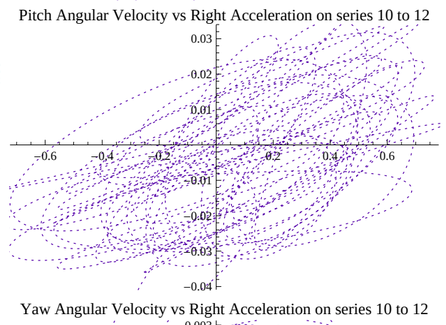
Pitch Angular Velocity vs Right Acceleration on series 4 to 6



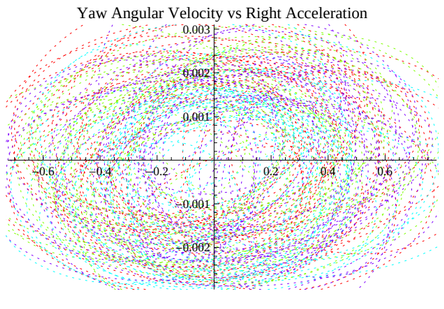
Pitch Angular Velocity vs Right Acceleration on series 7 to 9



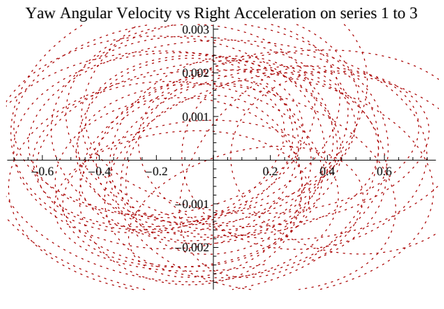
Pitch Angular Velocity vs Right Acceleration on series 10 to 12



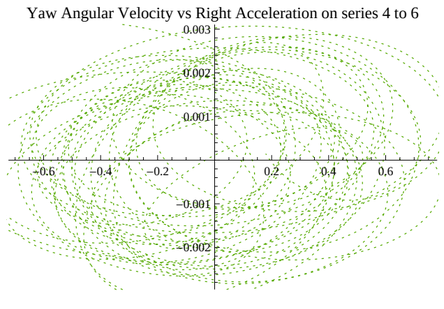
Yaw Angular Velocity vs Right Acceleration



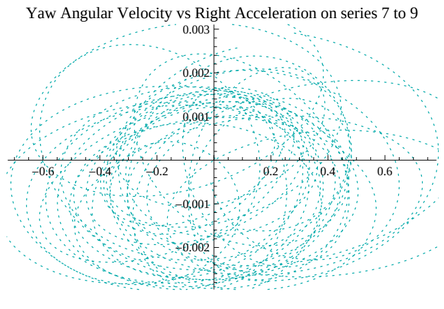
Yaw Angular Velocity vs Right Acceleration on series 1 to 3



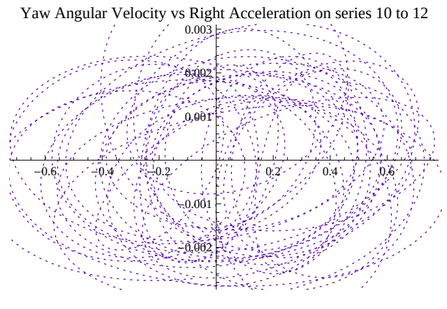
Yaw Angular Velocity vs Right Acceleration on series 4 to 6



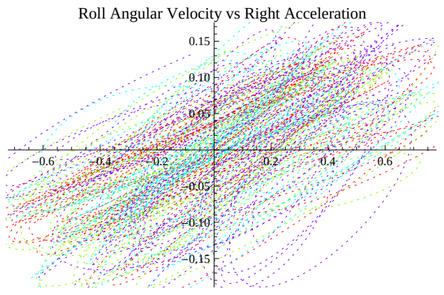
Yaw Angular Velocity vs Right Acceleration on series 7 to 9



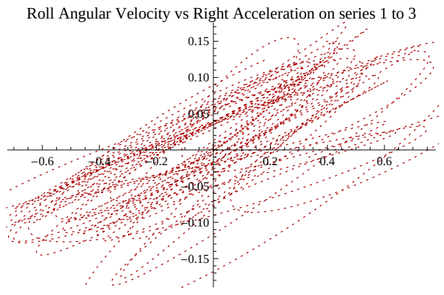
Yaw Angular Velocity vs Right Acceleration on series 10 to 12



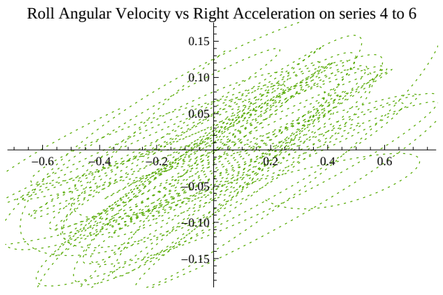
Roll Angular Velocity vs Right Acceleration



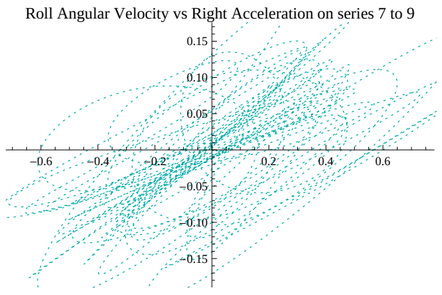
Roll Angular Velocity vs Right Acceleration on series 1 to 3



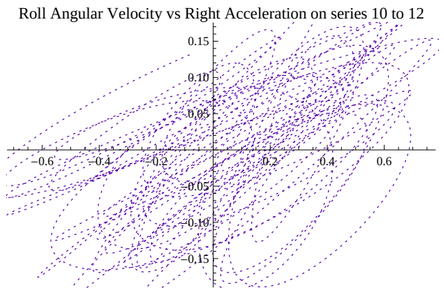
Roll Angular Velocity vs Right Acceleration on series 4 to 6



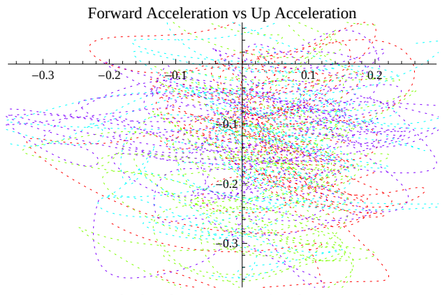
Roll Angular Velocity vs Right Acceleration on series 7 to 9



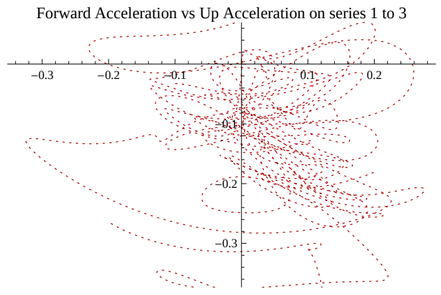
Roll Angular Velocity vs Right Acceleration on series 10 to 12



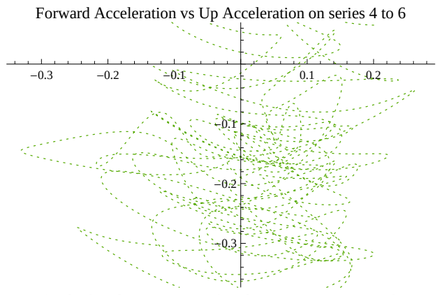
Forward Acceleration vs Up Acceleration



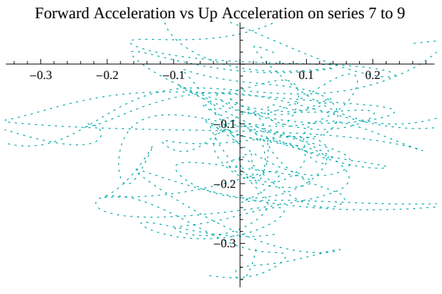
Forward Acceleration vs Up Acceleration on series 1 to 3



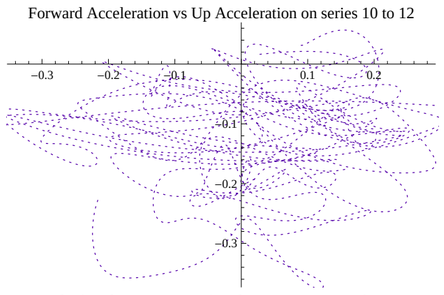
Forward Acceleration vs Up Acceleration on series 4 to 6



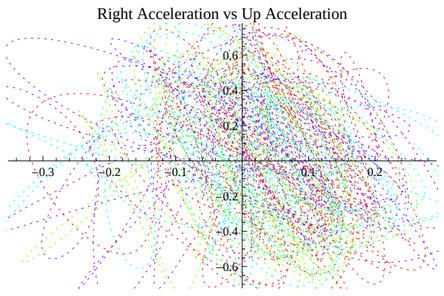
Forward Acceleration vs Up Acceleration on series 7 to 9



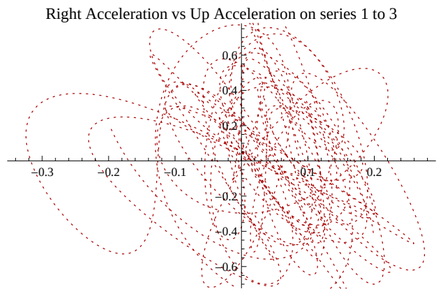
Forward Acceleration vs Up Acceleration on series 10 to 12



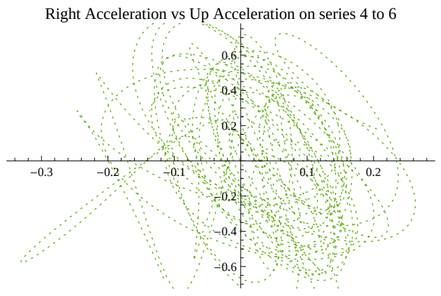
Right Acceleration vs Up Acceleration



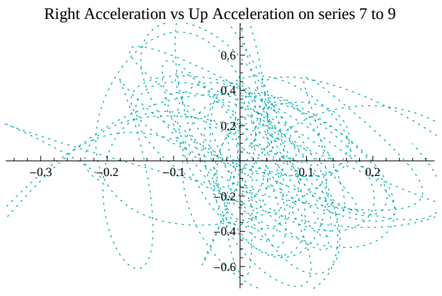
Right Acceleration vs Up Acceleration on series 1 to 3



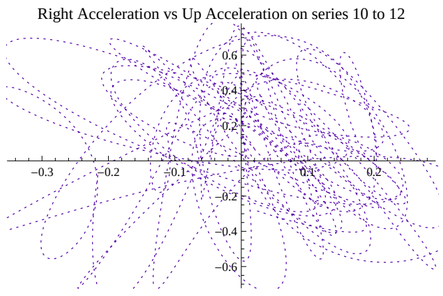
Right Acceleration vs Up Acceleration on series 4 to 6



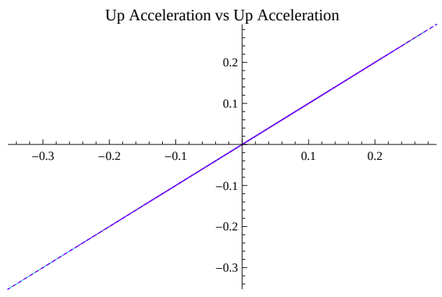
Right Acceleration vs Up Acceleration on series 7 to 9



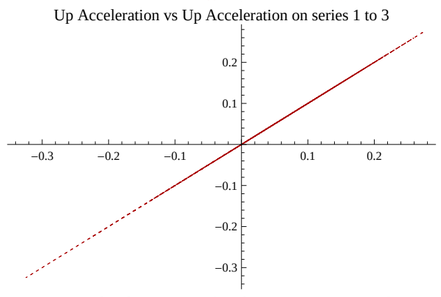
Right Acceleration vs Up Acceleration on series 10 to 12



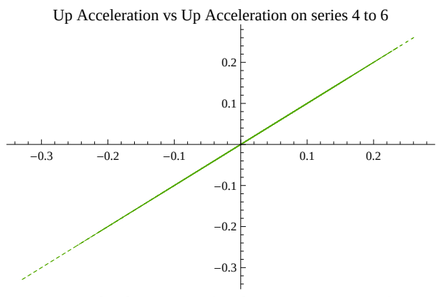
Up Acceleration vs Up Acceleration



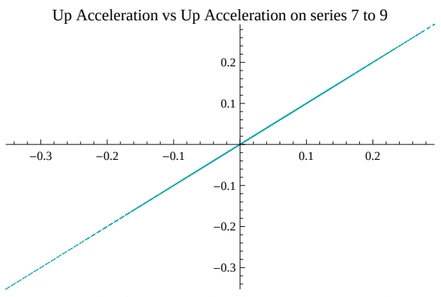
Up Acceleration vs Up Acceleration on series 1 to 3



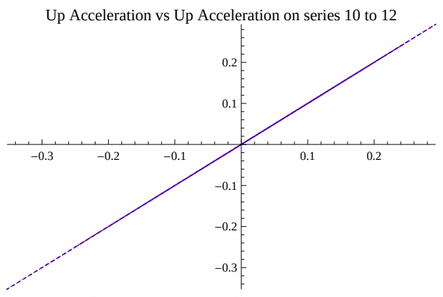
Up Acceleration vs Up Acceleration on series 4 to 6



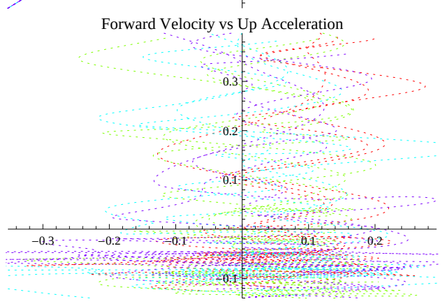
Up Acceleration vs Up Acceleration on series 7 to 9



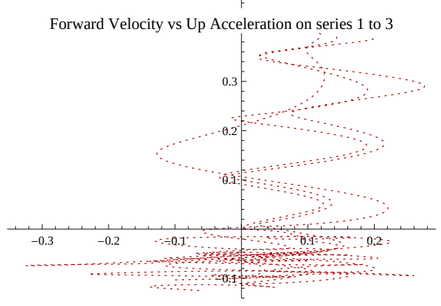
Up Acceleration vs Up Acceleration on series 10 to 12



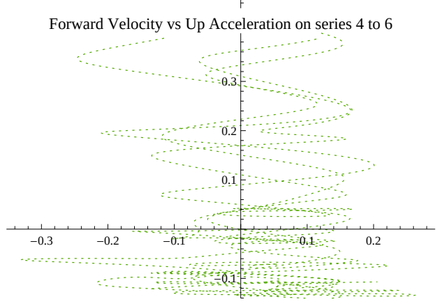
Forward Velocity vs Up Acceleration



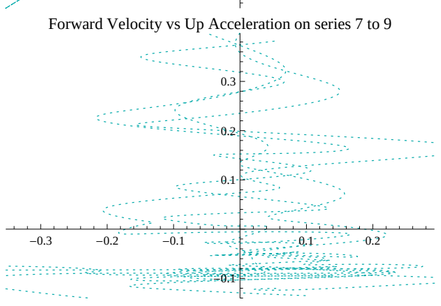
Forward Velocity vs Up Acceleration on series 1 to 3



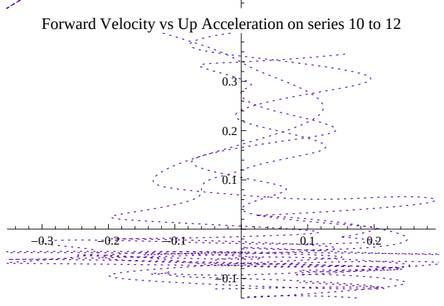
Forward Velocity vs Up Acceleration on series 4 to 6



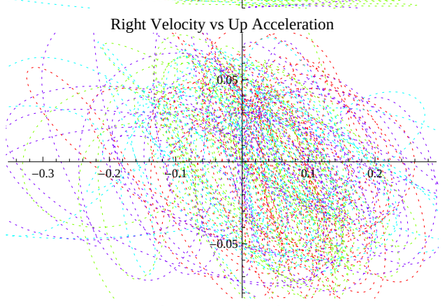
Forward Velocity vs Up Acceleration on series 7 to 9



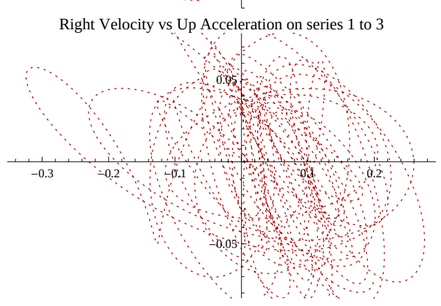
Forward Velocity vs Up Acceleration on series 10 to 12



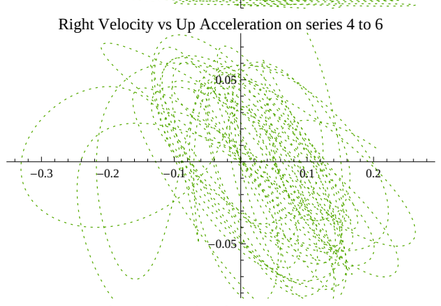
Right Velocity vs Up Acceleration



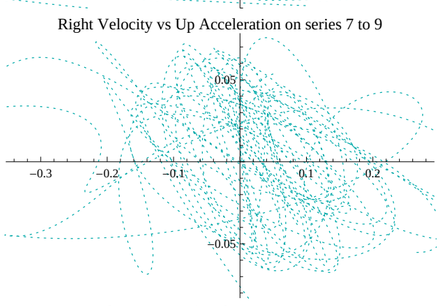
Right Velocity vs Up Acceleration on series 1 to 3



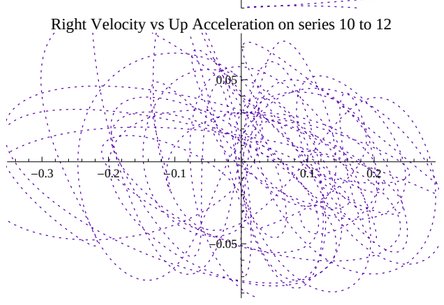
Right Velocity vs Up Acceleration on series 4 to 6



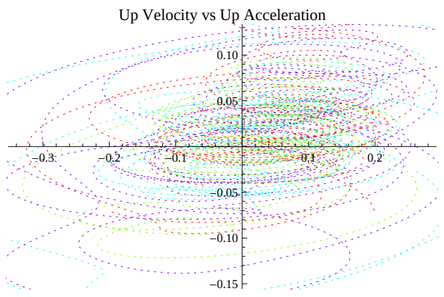
Right Velocity vs Up Acceleration on series 7 to 9



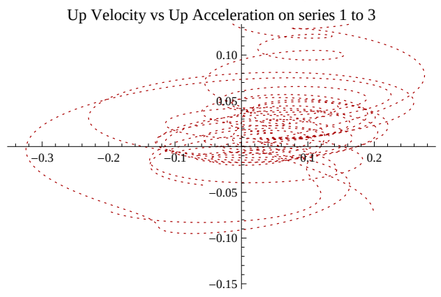
Right Velocity vs Up Acceleration on series 10 to 12



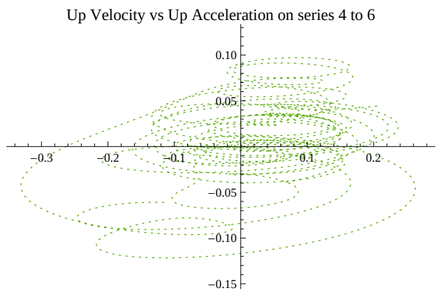
Up Velocity vs Up Acceleration



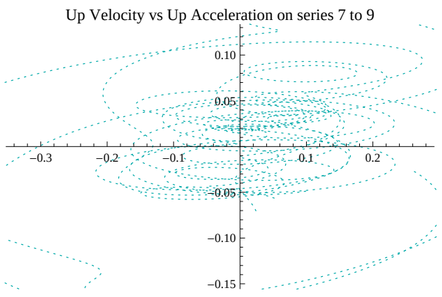
Up Velocity vs Up Acceleration on series 1 to 3



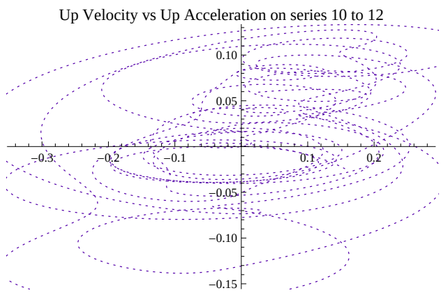
Up Velocity vs Up Acceleration on series 4 to 6



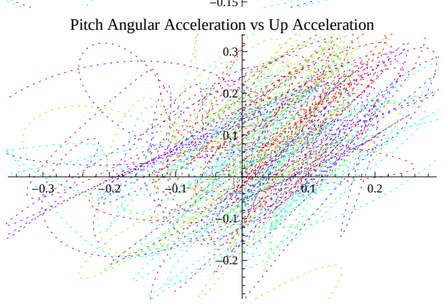
Up Velocity vs Up Acceleration on series 7 to 9



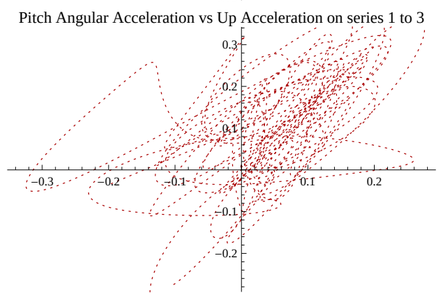
Up Velocity vs Up Acceleration on series 10 to 12



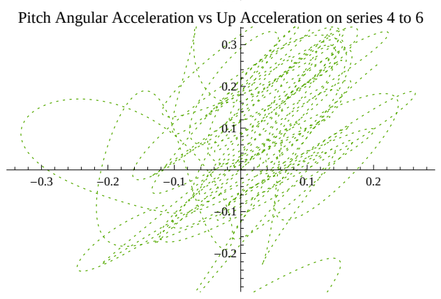
Pitch Angular Acceleration vs Up Acceleration



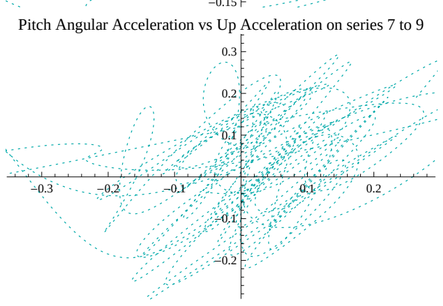
Pitch Angular Acceleration vs Up Acceleration on series 1 to 3



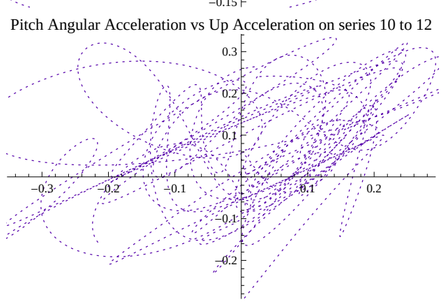
Pitch Angular Acceleration vs Up Acceleration on series 4 to 6



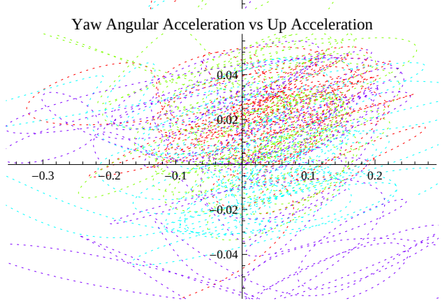
Pitch Angular Acceleration vs Up Acceleration on series 7 to 9



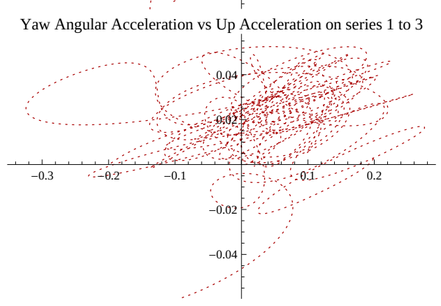
Pitch Angular Acceleration vs Up Acceleration on series 10 to 12



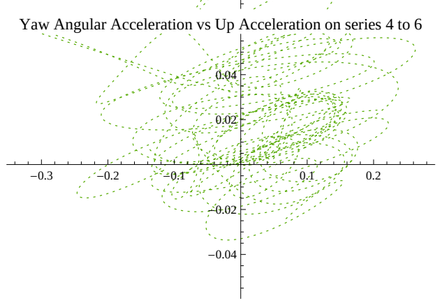
Yaw Angular Acceleration vs Up Acceleration



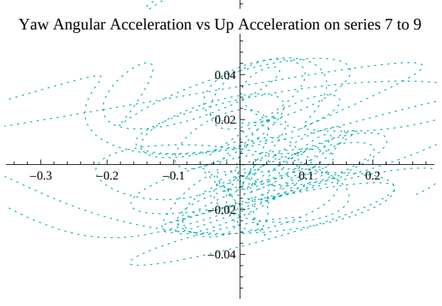
Yaw Angular Acceleration vs Up Acceleration on series 1 to 3



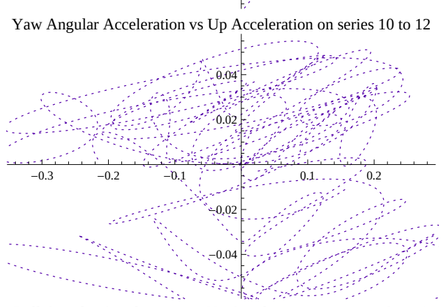
Yaw Angular Acceleration vs Up Acceleration on series 4 to 6



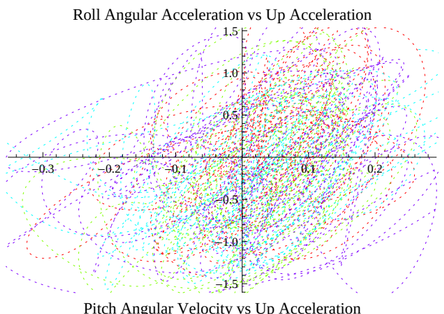
Yaw Angular Acceleration vs Up Acceleration on series 7 to 9



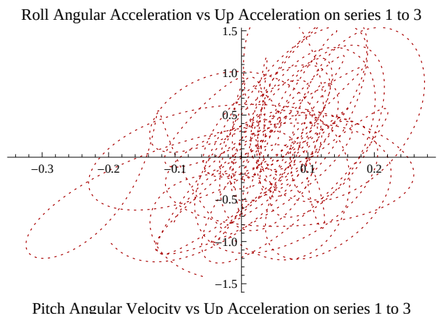
Yaw Angular Acceleration vs Up Acceleration on series 10 to 12



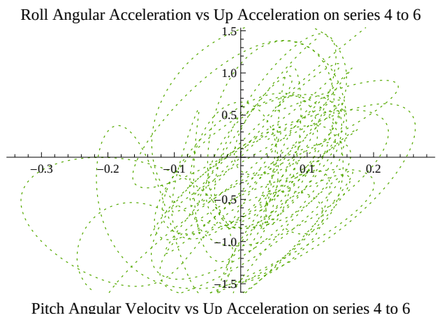
Roll Angular Acceleration vs Up Acceleration



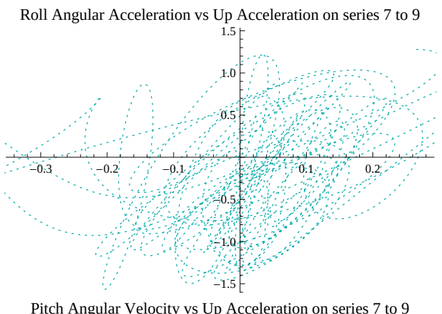
Roll Angular Acceleration vs Up Acceleration on series 1 to 3



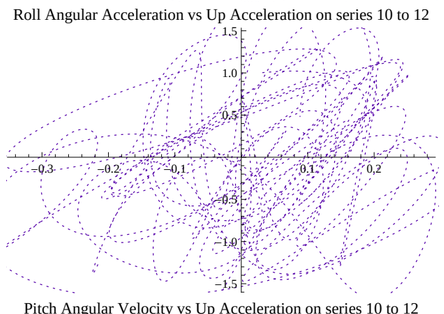
Roll Angular Acceleration vs Up Acceleration on series 4 to 6



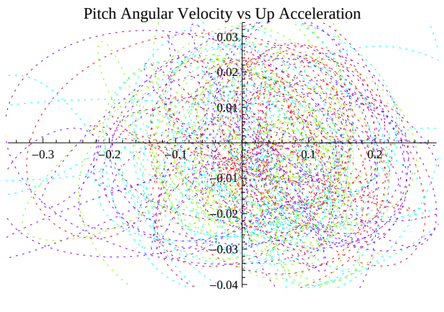
Roll Angular Acceleration vs Up Acceleration on series 7 to 9



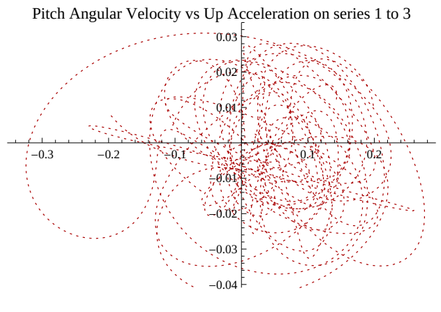
Roll Angular Acceleration vs Up Acceleration on series 10 to 12



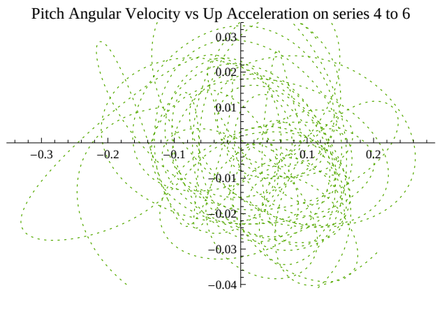
Pitch Angular Velocity vs Up Acceleration



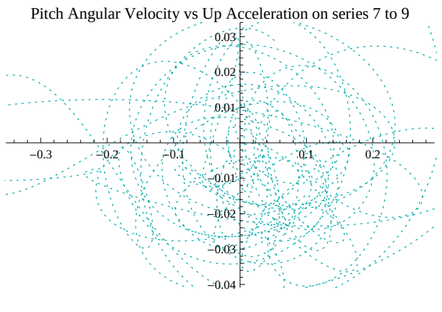
Pitch Angular Velocity vs Up Acceleration on series 1 to 3



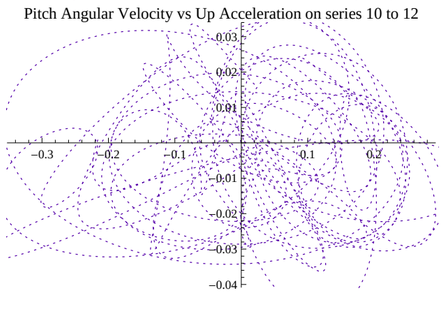
Pitch Angular Velocity vs Up Acceleration on series 4 to 6

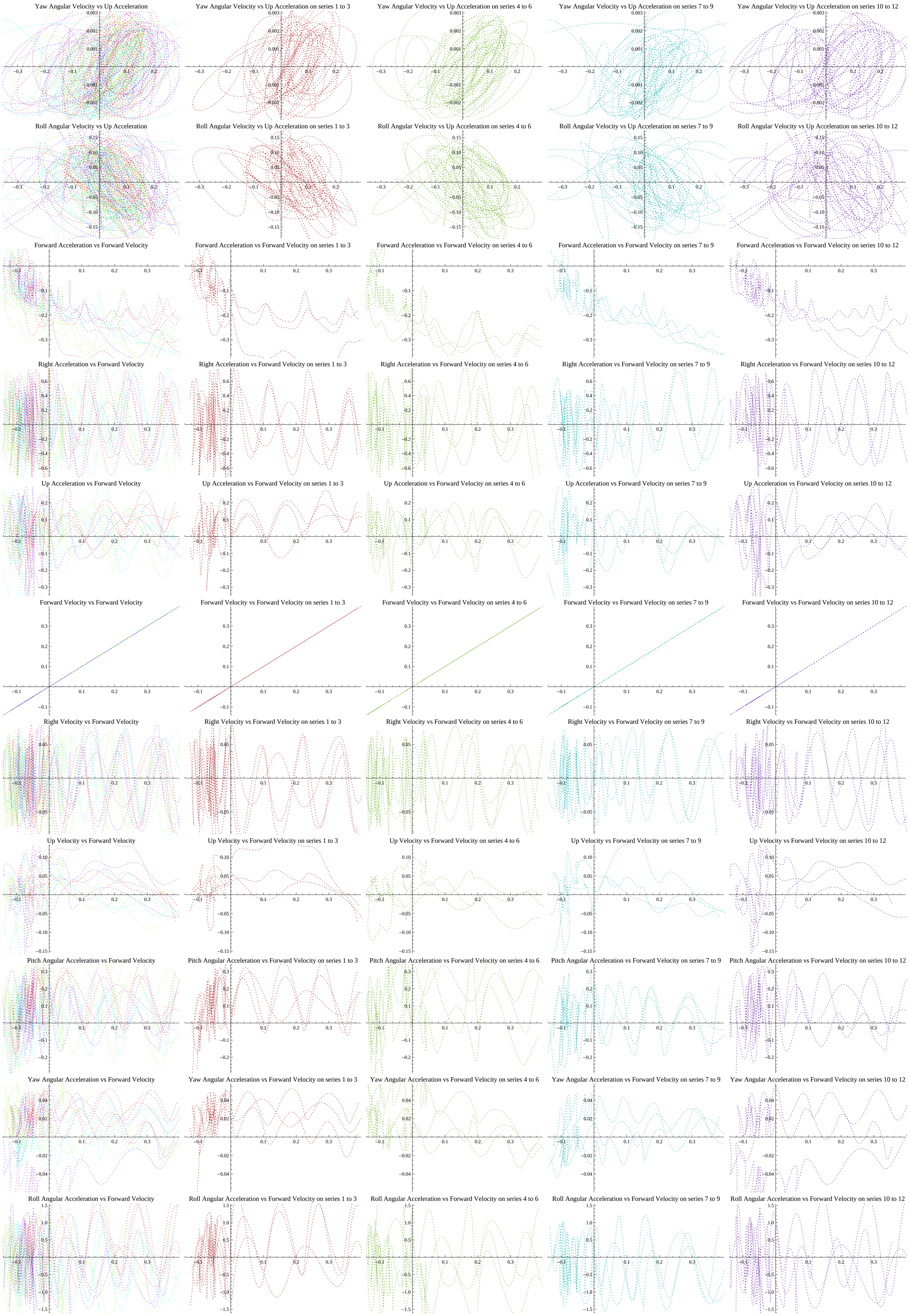


Pitch Angular Velocity vs Up Acceleration on series 7 to 9

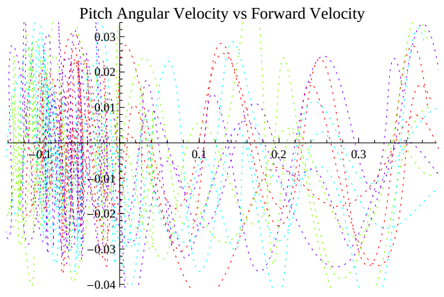


Pitch Angular Velocity vs Up Acceleration on series 10 to 12

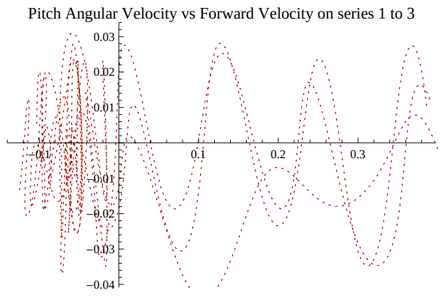



Yaw Angular Velocity vs Up Acceleration
Yaw Angular Velocity vs Up Acceleration on series 1 to 3
Yaw Angular Velocity vs Up Acceleration on series 4 to 6
Yaw Angular Velocity vs Up Acceleration on series 7 to 9
Yaw Angular Velocity vs Up Acceleration on series 10 to 12
Roll Angular Velocity vs Up Acceleration
Roll Angular Velocity vs Up Acceleration on series 1 to 3
Roll Angular Velocity vs Up Acceleration on series 4 to 6
Roll Angular Velocity vs Up Acceleration on series 7 to 9
Roll Angular Velocity vs Up Acceleration on series 10 to 12
Forward Acceleration vs Forward Velocity
Forward Acceleration vs Forward Velocity on series 1 to 3
Forward Acceleration vs Forward Velocity on series 4 to 6
Forward Acceleration vs Forward Velocity on series 7 to 9
Forward Acceleration vs Forward Velocity on series 10 to 12
Right Acceleration vs Forward Velocity
Right Acceleration vs Forward Velocity on series 1 to 3
Right Acceleration vs Forward Velocity on series 4 to 6
Right Acceleration vs Forward Velocity on series 7 to 9
Right Acceleration vs Forward Velocity on series 10 to 12
Up Acceleration vs Forward Velocity
Up Acceleration vs Forward Velocity on series 1 to 3
Up Acceleration vs Forward Velocity on series 4 to 6
Up Acceleration vs Forward Velocity on series 7 to 9
Up Acceleration vs Forward Velocity on series 10 to 12
Forward Velocity vs Forward Velocity
Forward Velocity vs Forward Velocity on series 1 to 3
Forward Velocity vs Forward Velocity on series 4 to 6
Forward Velocity vs Forward Velocity on series 7 to 9
Forward Velocity vs Forward Velocity on series 10 to 12
Right Velocity vs Forward Velocity
Right Velocity vs Forward Velocity on series 1 to 3
Right Velocity vs Forward Velocity on series 4 to 6
Right Velocity vs Forward Velocity on series 7 to 9
Right Velocity vs Forward Velocity on series 10 to 12
Up Velocity vs Forward Velocity
Up Velocity vs Forward Velocity on series 1 to 3
Up Velocity vs Forward Velocity on series 4 to 6
Up Velocity vs Forward Velocity on series 7 to 9
Up Velocity vs Forward Velocity on series 10 to 12
Pitch Angular Acceleration vs Forward Velocity
Pitch Angular Acceleration vs Forward Velocity on series 1 to 3
Pitch Angular Acceleration vs Forward Velocity on series 4 to 6
Pitch Angular Acceleration vs Forward Velocity on series 7 to 9
Pitch Angular Acceleration vs Forward Velocity on series 10 to 12
Yaw Angular Acceleration vs Forward Velocity
Yaw Angular Acceleration vs Forward Velocity on series 1 to 3
Yaw Angular Acceleration vs Forward Velocity on series 4 to 6
Yaw Angular Acceleration vs Forward Velocity on series 7 to 9
Yaw Angular Acceleration vs Forward Velocity on series 10 to 12
Roll Angular Acceleration vs Forward Velocity
Roll Angular Acceleration vs Forward Velocity on series 1 to 3
Roll Angular Acceleration vs Forward Velocity on series 4 to 6
Roll Angular Acceleration vs Forward Velocity on series 7 to 9
Roll Angular Acceleration vs Forward Velocity on series 10 to 12

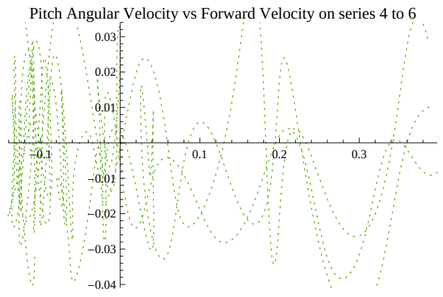
Pitch Angular Velocity vs Forward Velocity



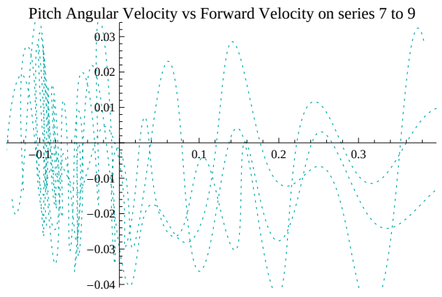
Pitch Angular Velocity vs Forward Velocity on series 1 to 3



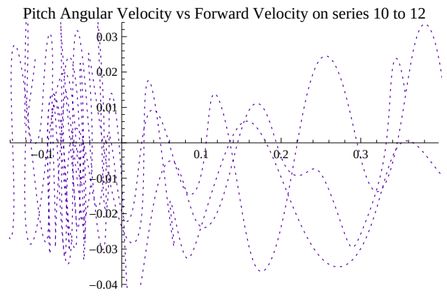
Pitch Angular Velocity vs Forward Velocity on series 4 to 6



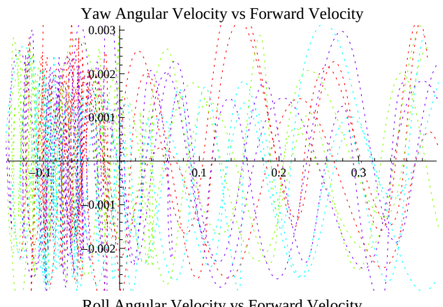
Pitch Angular Velocity vs Forward Velocity on series 7 to 9



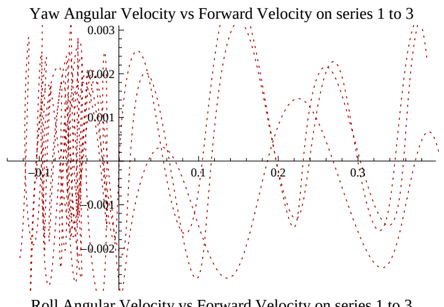
Pitch Angular Velocity vs Forward Velocity on series 10 to 12



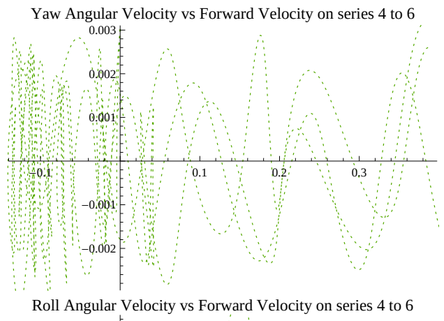
Yaw Angular Velocity vs Forward Velocity



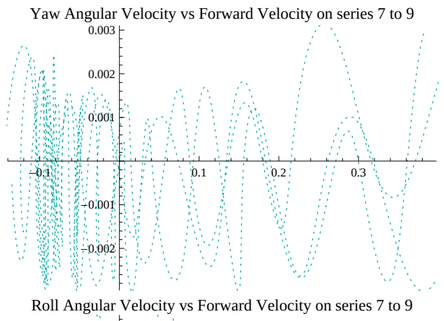
Yaw Angular Velocity vs Forward Velocity on series 1 to 3



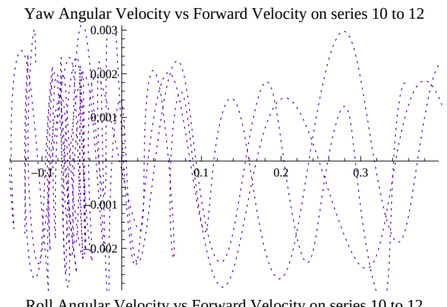
Yaw Angular Velocity vs Forward Velocity on series 4 to 6



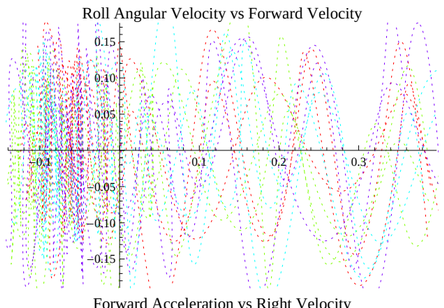
Yaw Angular Velocity vs Forward Velocity on series 7 to 9



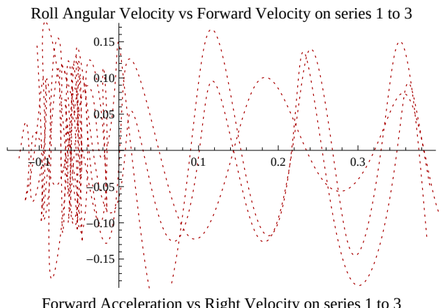
Yaw Angular Velocity vs Forward Velocity on series 10 to 12



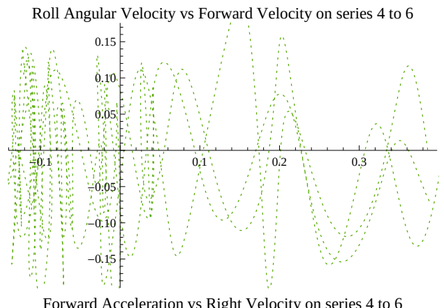
Roll Angular Velocity vs Forward Velocity



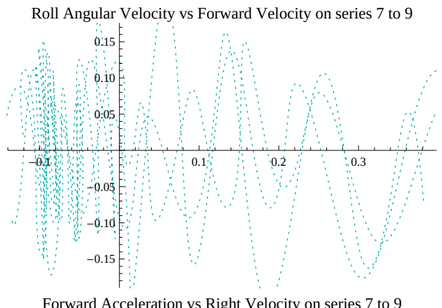
Roll Angular Velocity vs Forward Velocity on series 1 to 3



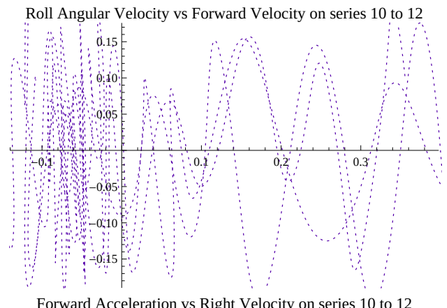
Roll Angular Velocity vs Forward Velocity on series 4 to 6



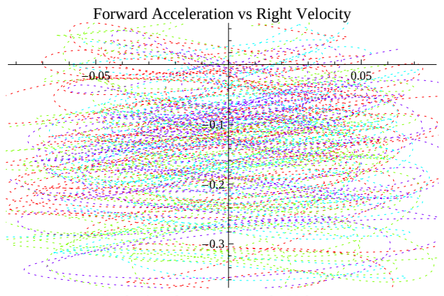
Roll Angular Velocity vs Forward Velocity on series 7 to 9



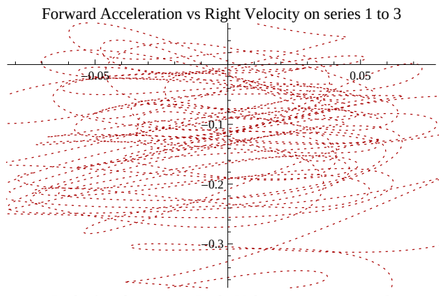
Roll Angular Velocity vs Forward Velocity on series 10 to 12



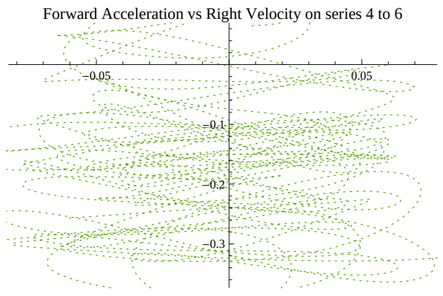
Forward Acceleration vs Right Velocity



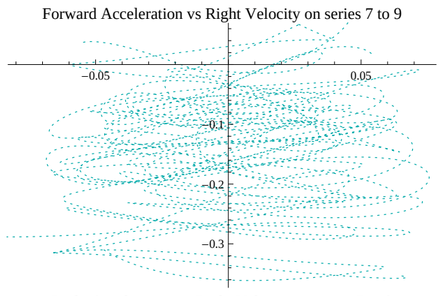
Forward Acceleration vs Right Velocity on series 1 to 3



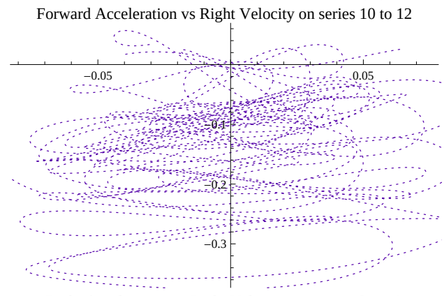
Forward Acceleration vs Right Velocity on series 4 to 6



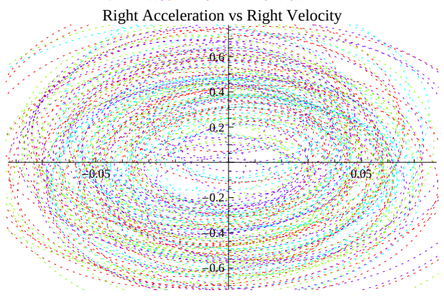
Forward Acceleration vs Right Velocity on series 7 to 9



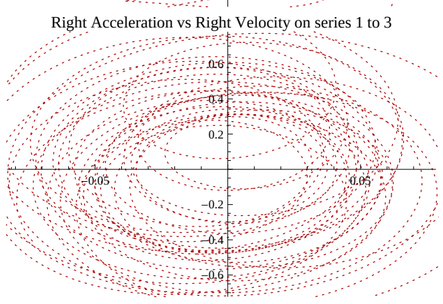
Forward Acceleration vs Right Velocity on series 10 to 12



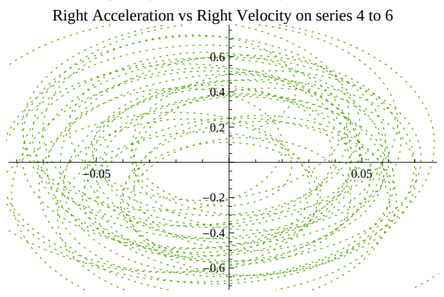
Right Acceleration vs Right Velocity



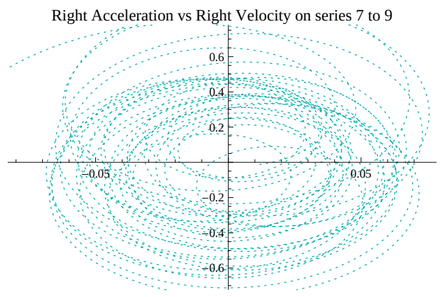
Right Acceleration vs Right Velocity on series 1 to 3



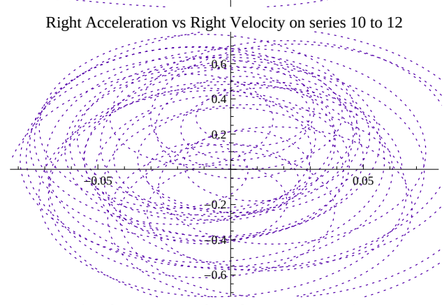
Right Acceleration vs Right Velocity on series 4 to 6



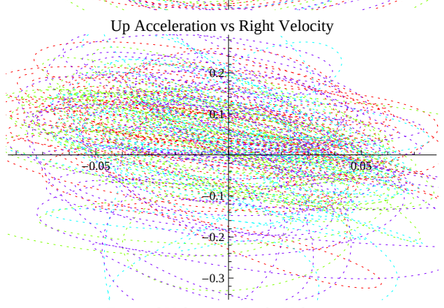
Right Acceleration vs Right Velocity on series 7 to 9



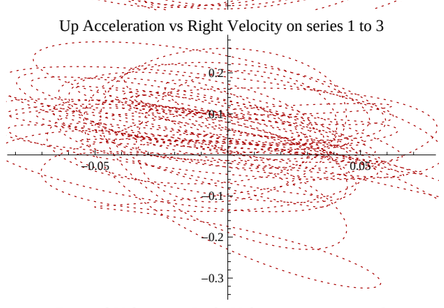
Right Acceleration vs Right Velocity on series 10 to 12



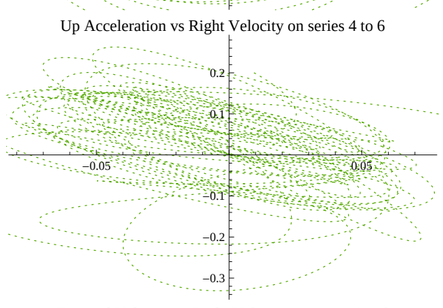
Up Acceleration vs Right Velocity



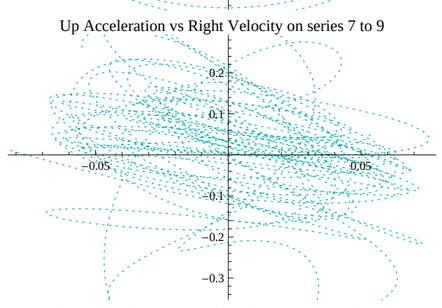
Up Acceleration vs Right Velocity on series 1 to 3



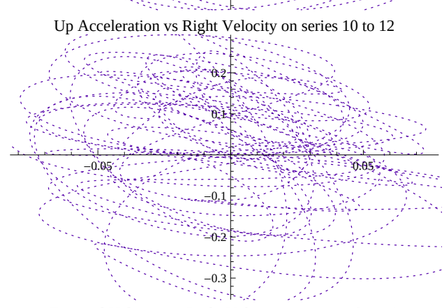
Up Acceleration vs Right Velocity on series 4 to 6



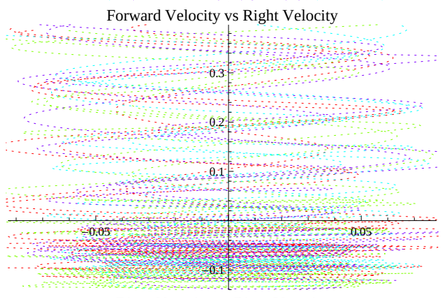
Up Acceleration vs Right Velocity on series 7 to 9



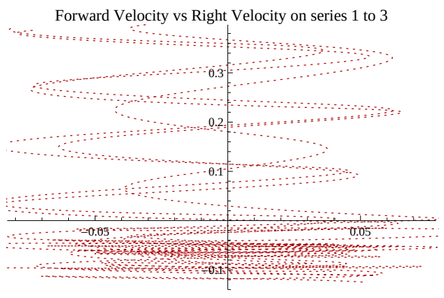
Up Acceleration vs Right Velocity on series 10 to 12



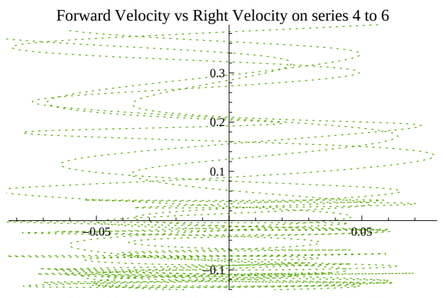
Forward Velocity vs Right Velocity



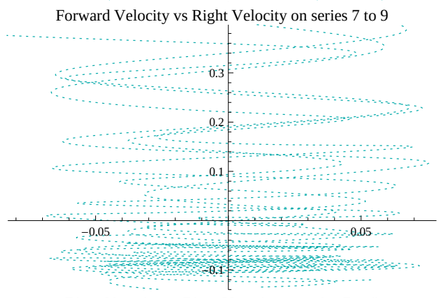
Forward Velocity vs Right Velocity on series 1 to 3



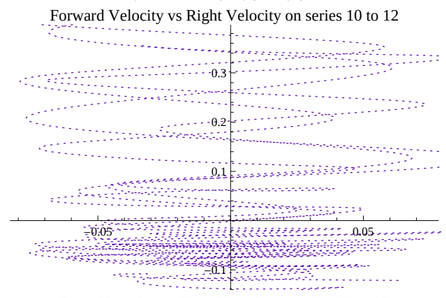
Forward Velocity vs Right Velocity on series 4 to 6



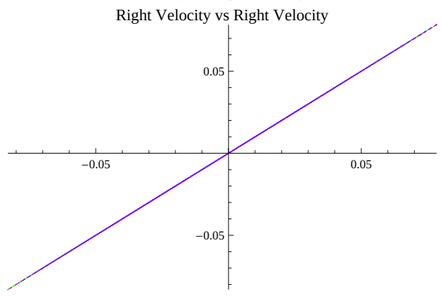
Forward Velocity vs Right Velocity on series 7 to 9



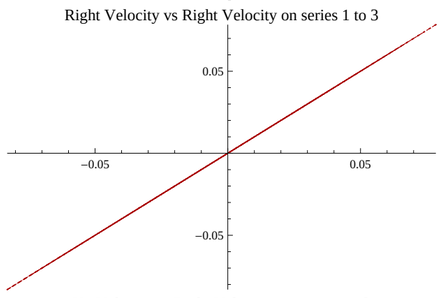
Forward Velocity vs Right Velocity on series 10 to 12



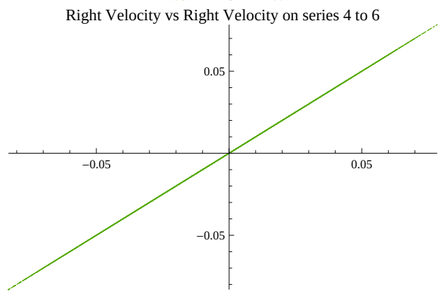
Right Velocity vs Right Velocity



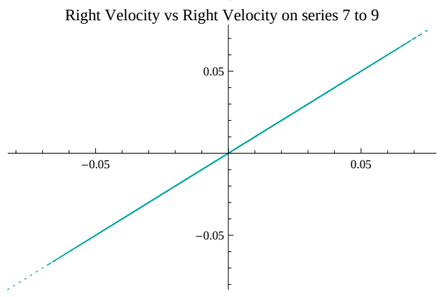
Right Velocity vs Right Velocity on series 1 to 3



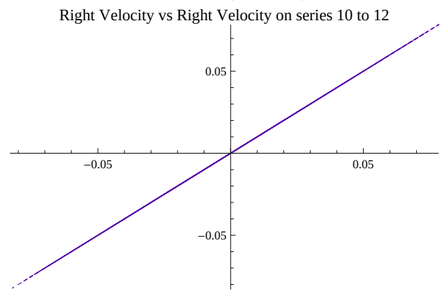
Right Velocity vs Right Velocity on series 4 to 6



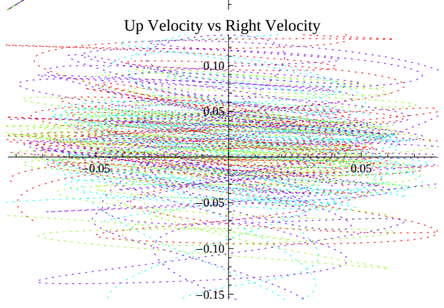
Right Velocity vs Right Velocity on series 7 to 9



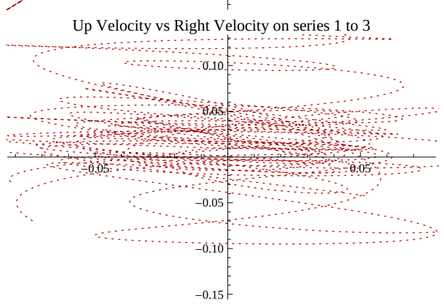
Right Velocity vs Right Velocity on series 10 to 12



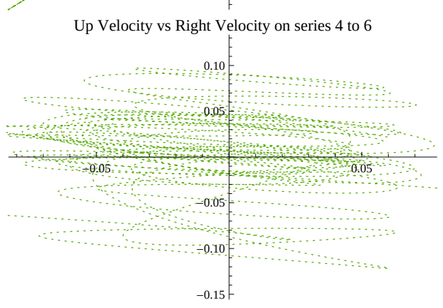
Up Velocity vs Right Velocity



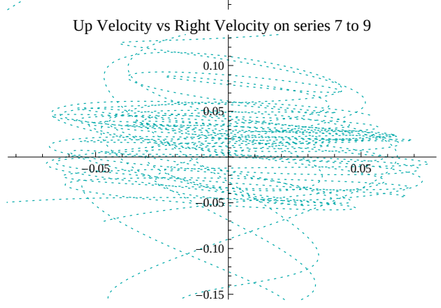
Up Velocity vs Right Velocity on series 1 to 3



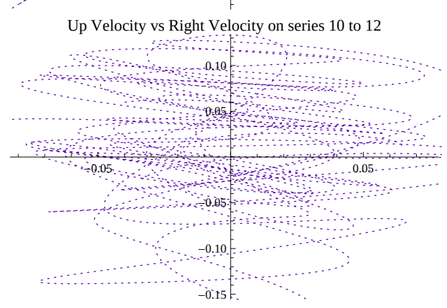
Up Velocity vs Right Velocity on series 4 to 6



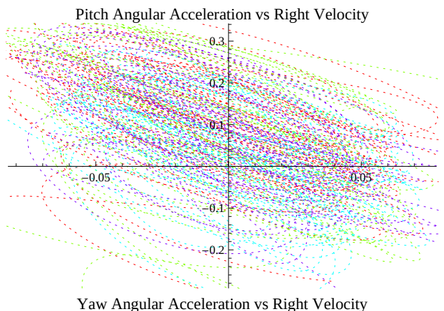
Up Velocity vs Right Velocity on series 7 to 9



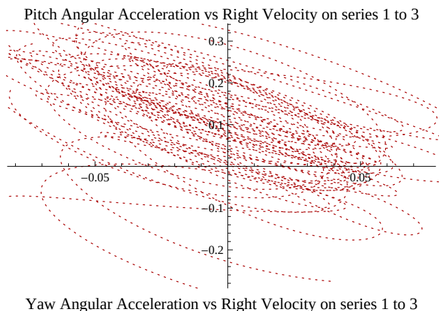
Up Velocity vs Right Velocity on series 10 to 12



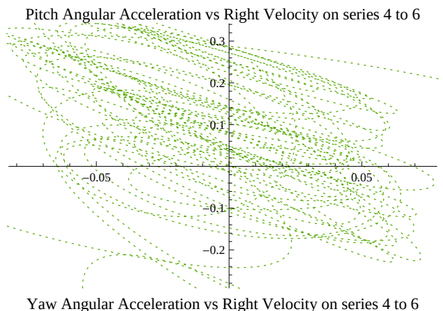
Pitch Angular Acceleration vs Right Velocity



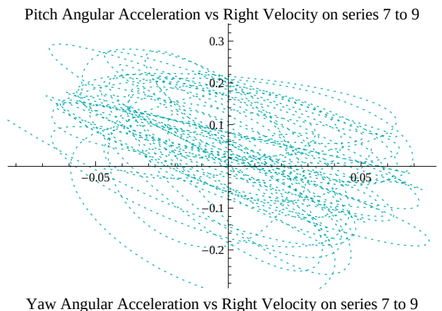
Pitch Angular Acceleration vs Right Velocity on series 1 to 3



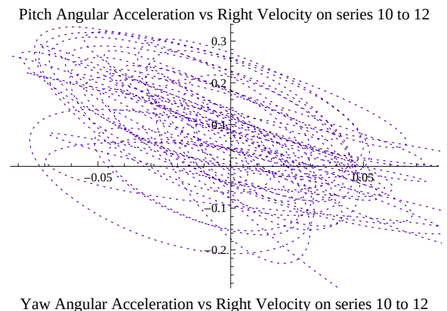
Pitch Angular Acceleration vs Right Velocity on series 4 to 6



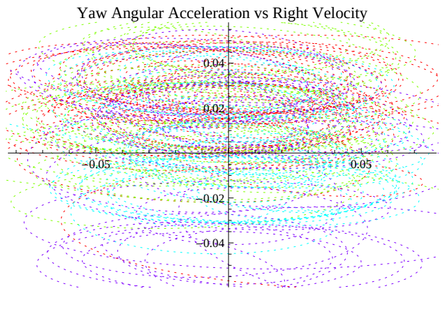
Pitch Angular Acceleration vs Right Velocity on series 7 to 9



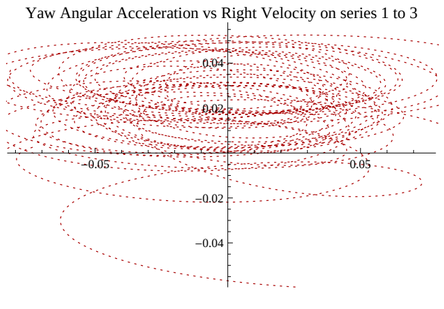
Pitch Angular Acceleration vs Right Velocity on series 10 to 12



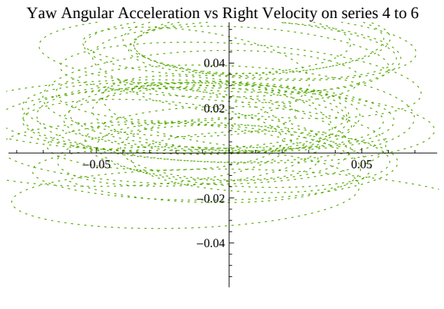
Yaw Angular Acceleration vs Right Velocity



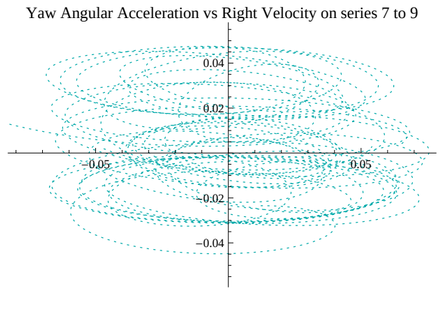
Yaw Angular Acceleration vs Right Velocity on series 1 to 3



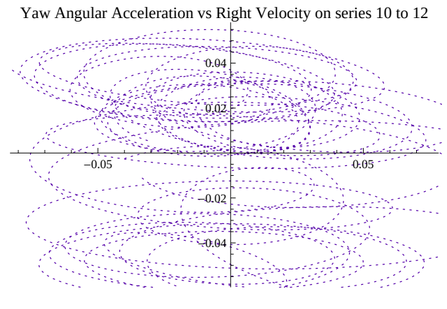
Yaw Angular Acceleration vs Right Velocity on series 4 to 6



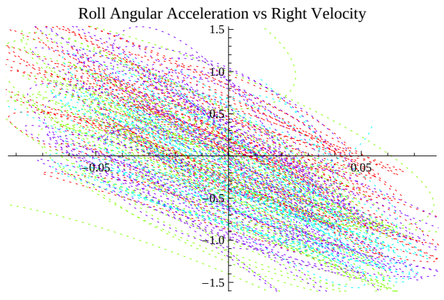
Yaw Angular Acceleration vs Right Velocity on series 7 to 9



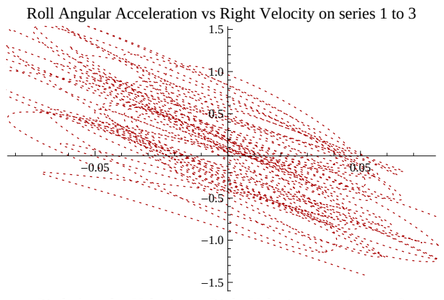
Yaw Angular Acceleration vs Right Velocity on series 10 to 12



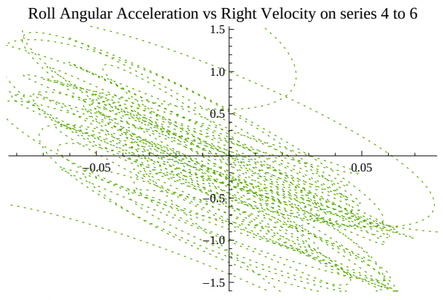
Roll Angular Acceleration vs Right Velocity



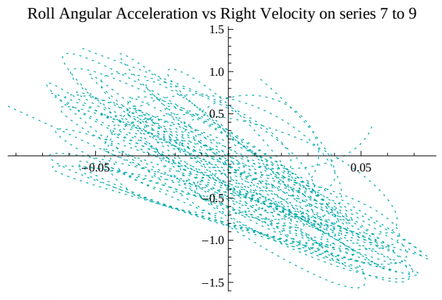
Roll Angular Acceleration vs Right Velocity on series 1 to 3



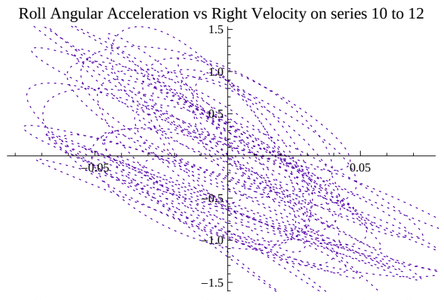
Roll Angular Acceleration vs Right Velocity on series 4 to 6



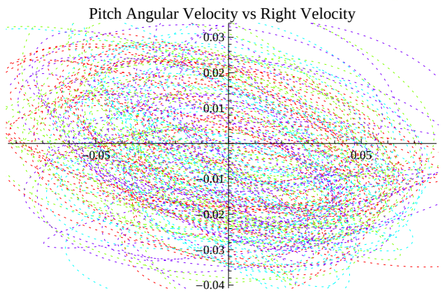
Roll Angular Acceleration vs Right Velocity on series 7 to 9



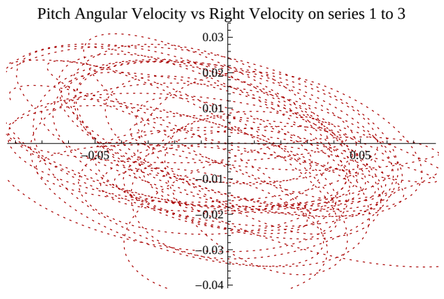
Roll Angular Acceleration vs Right Velocity on series 10 to 12



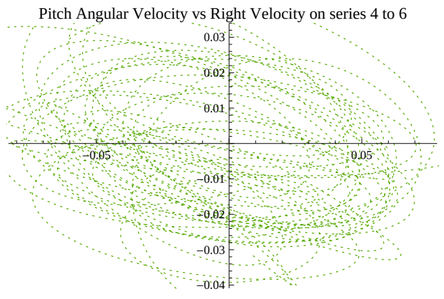
Pitch Angular Velocity vs Right Velocity



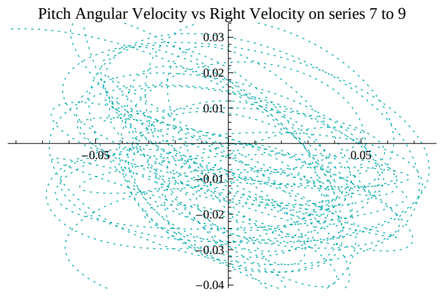
Pitch Angular Velocity vs Right Velocity on series 1 to 3



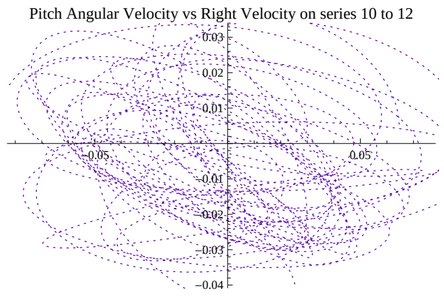
Pitch Angular Velocity vs Right Velocity on series 4 to 6



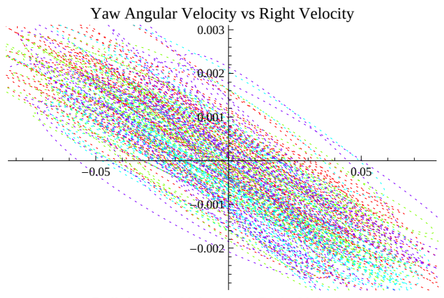
Pitch Angular Velocity vs Right Velocity on series 7 to 9



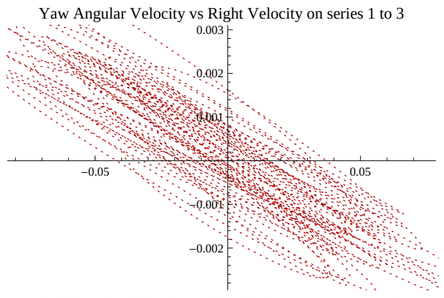
Pitch Angular Velocity vs Right Velocity on series 10 to 12



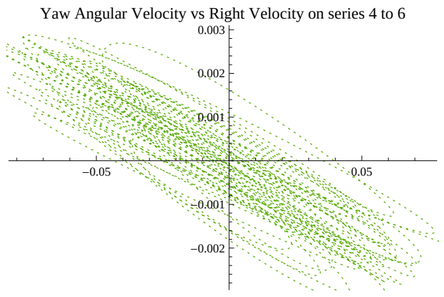
Yaw Angular Velocity vs Right Velocity



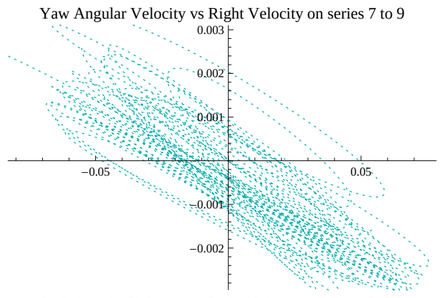
Yaw Angular Velocity vs Right Velocity on series 1 to 3



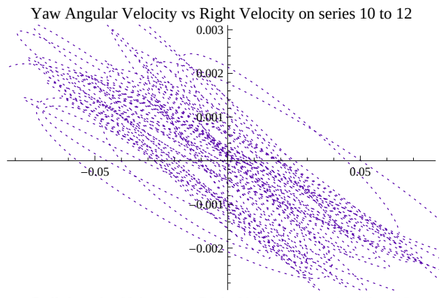
Yaw Angular Velocity vs Right Velocity on series 4 to 6



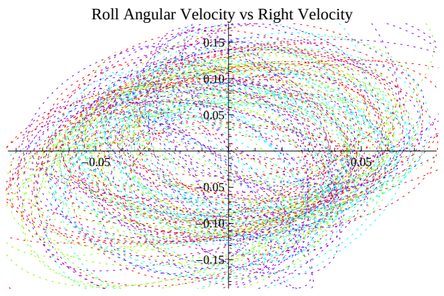
Yaw Angular Velocity vs Right Velocity on series 7 to 9



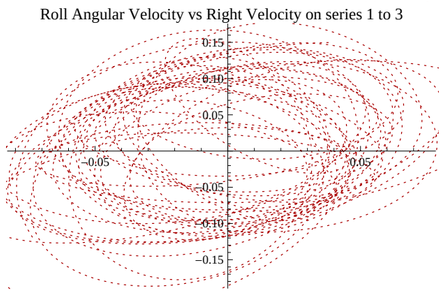
Yaw Angular Velocity vs Right Velocity on series 10 to 12



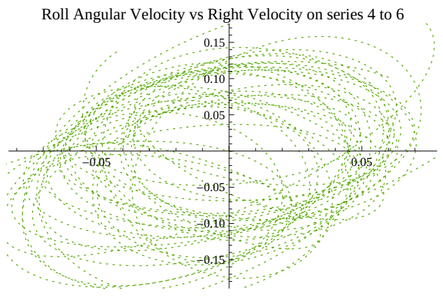
Roll Angular Velocity vs Right Velocity



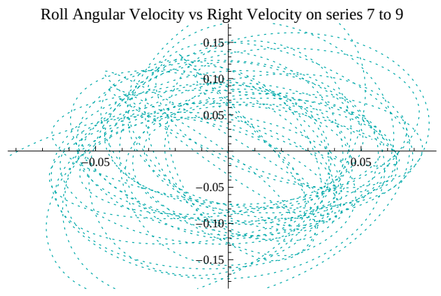
Roll Angular Velocity vs Right Velocity on series 1 to 3



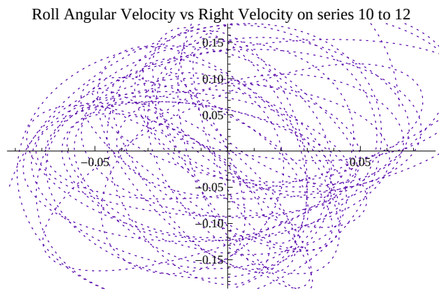
Roll Angular Velocity vs Right Velocity on series 4 to 6



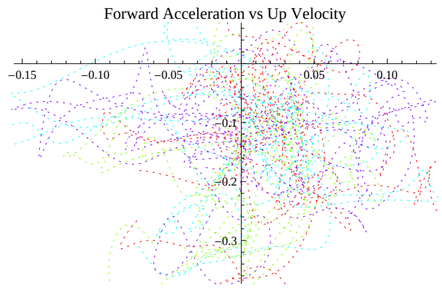
Roll Angular Velocity vs Right Velocity on series 7 to 9



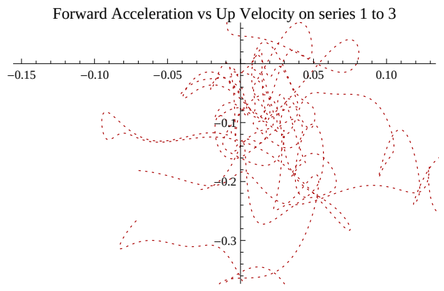
Roll Angular Velocity vs Right Velocity on series 10 to 12



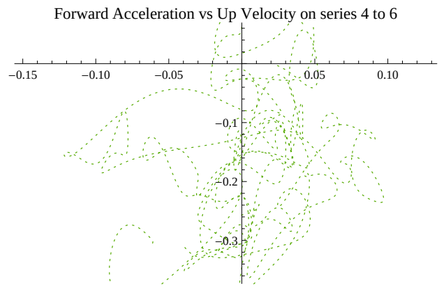
Forward Acceleration vs Up Velocity



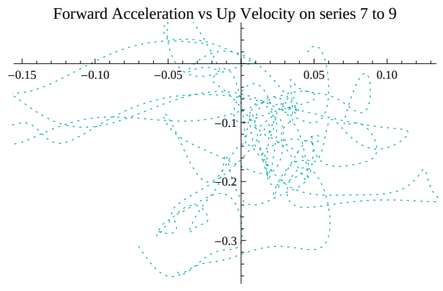
Forward Acceleration vs Up Velocity on series 1 to 3



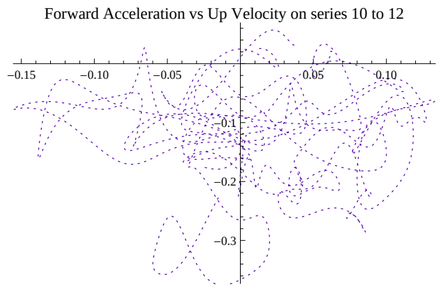
Forward Acceleration vs Up Velocity on series 4 to 6



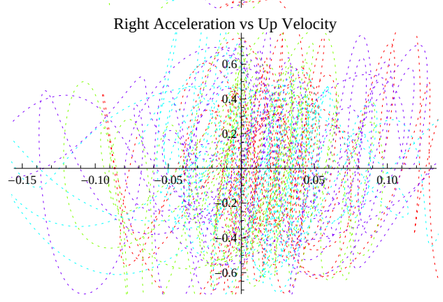
Forward Acceleration vs Up Velocity on series 7 to 9



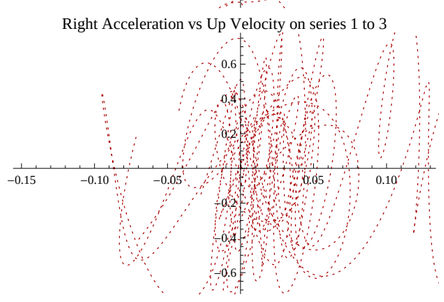
Forward Acceleration vs Up Velocity on series 10 to 12



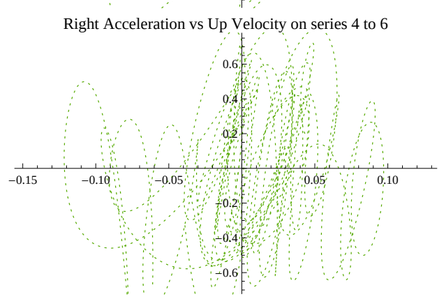
Right Acceleration vs Up Velocity



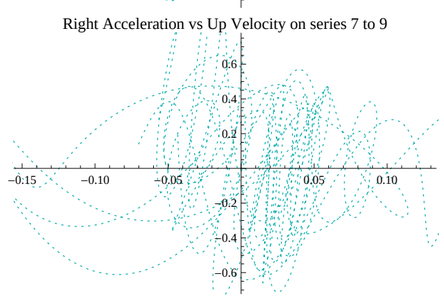
Right Acceleration vs Up Velocity on series 1 to 3



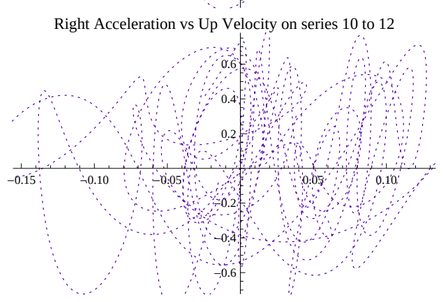
Right Acceleration vs Up Velocity on series 4 to 6



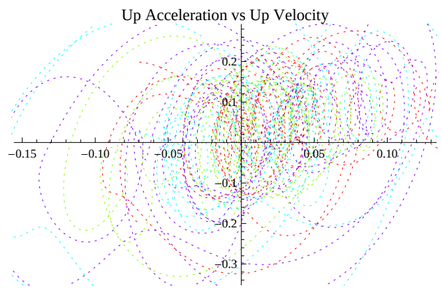
Right Acceleration vs Up Velocity on series 7 to 9



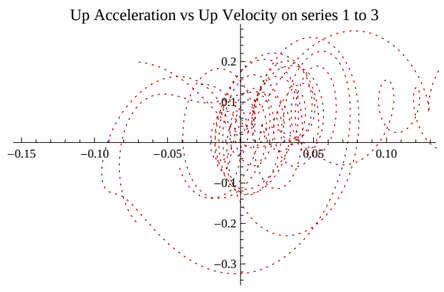
Right Acceleration vs Up Velocity on series 10 to 12



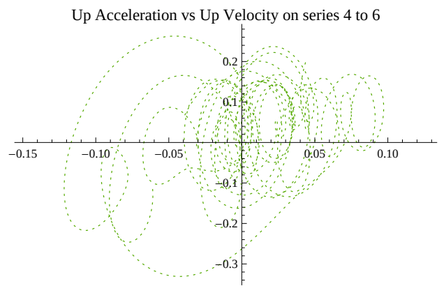
Up Acceleration vs Up Velocity



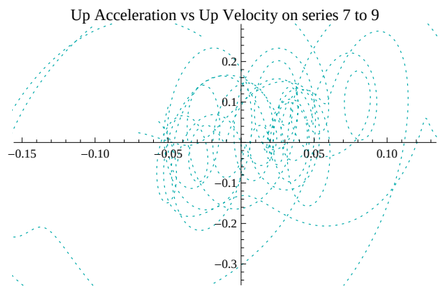
Up Acceleration vs Up Velocity on series 1 to 3



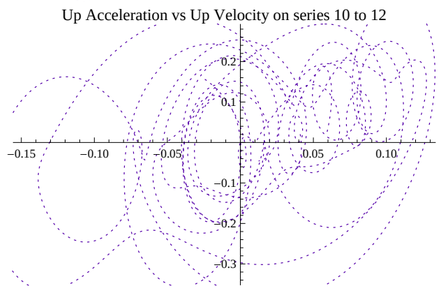
Up Acceleration vs Up Velocity on series 4 to 6



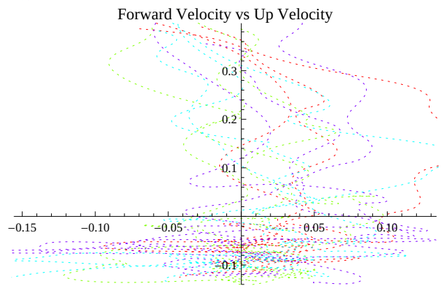
Up Acceleration vs Up Velocity on series 7 to 9



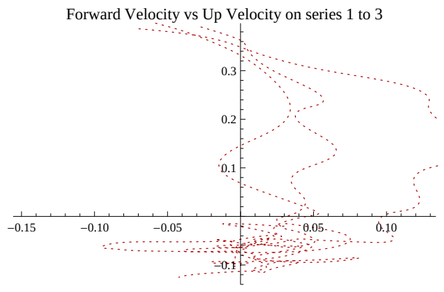
Up Acceleration vs Up Velocity on series 10 to 12



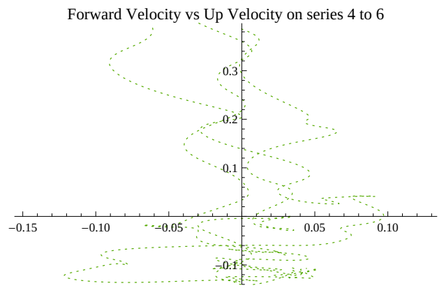
Forward Velocity vs Up Velocity



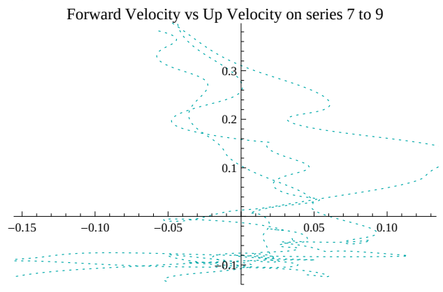
Forward Velocity vs Up Velocity on series 1 to 3



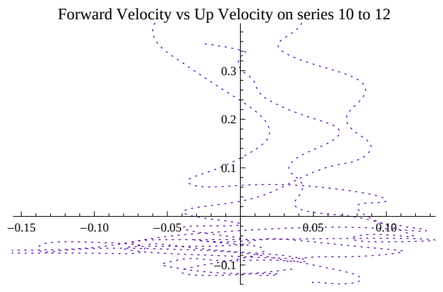
Forward Velocity vs Up Velocity on series 4 to 6



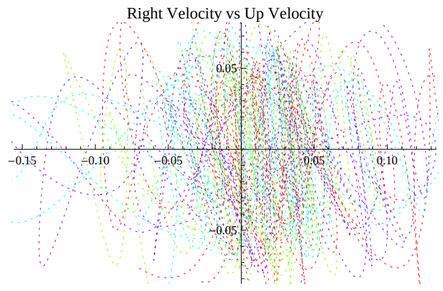
Forward Velocity vs Up Velocity on series 7 to 9



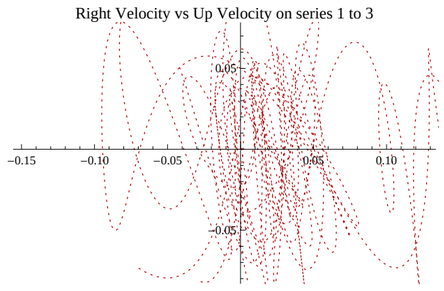
Forward Velocity vs Up Velocity on series 10 to 12



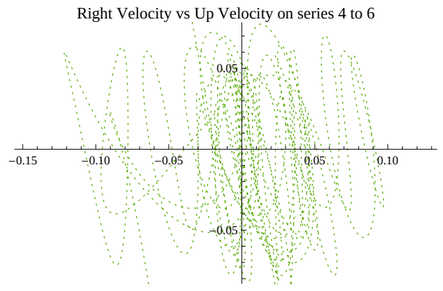
Right Velocity vs Up Velocity



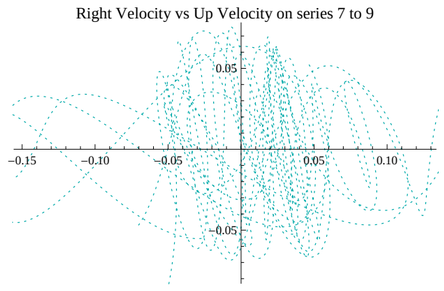
Right Velocity vs Up Velocity on series 1 to 3



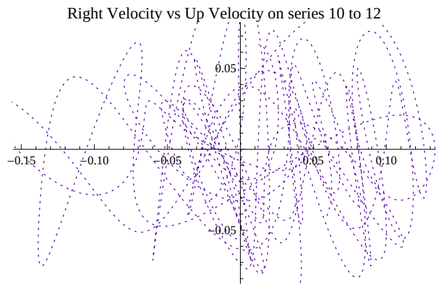
Right Velocity vs Up Velocity on series 4 to 6



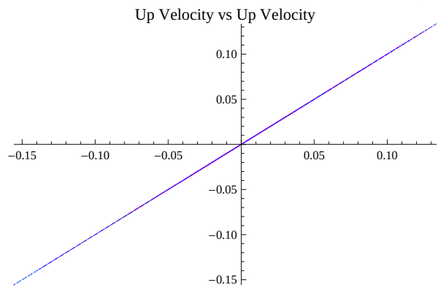
Right Velocity vs Up Velocity on series 7 to 9



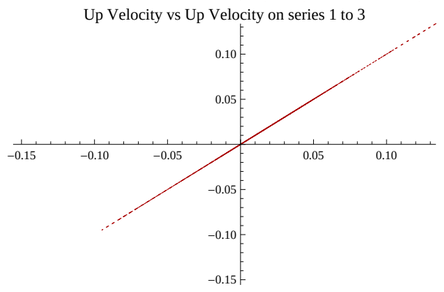
Right Velocity vs Up Velocity on series 10 to 12



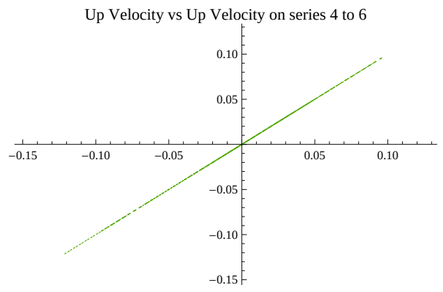
Up Velocity vs Up Velocity



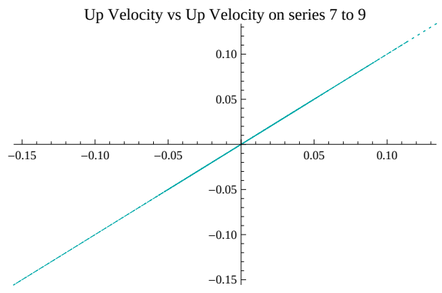
Up Velocity vs Up Velocity on series 1 to 3



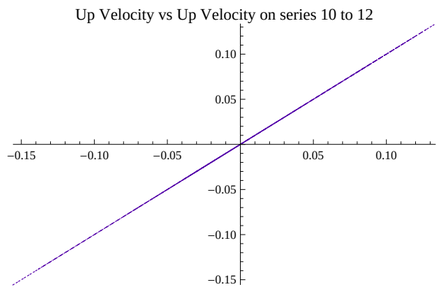
Up Velocity vs Up Velocity on series 4 to 6



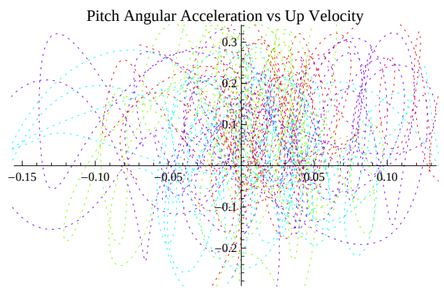
Up Velocity vs Up Velocity on series 7 to 9



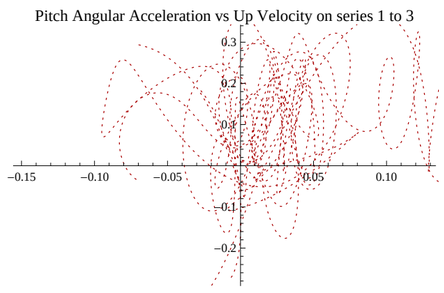
Up Velocity vs Up Velocity on series 10 to 12



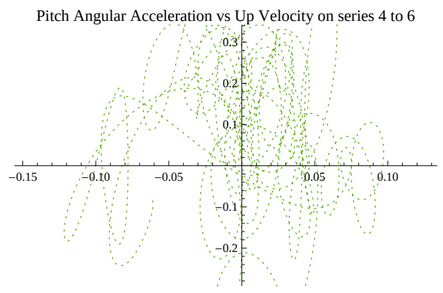
Pitch Angular Acceleration vs Up Velocity



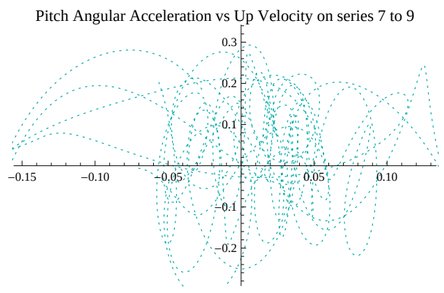
Pitch Angular Acceleration vs Up Velocity on series 1 to 3



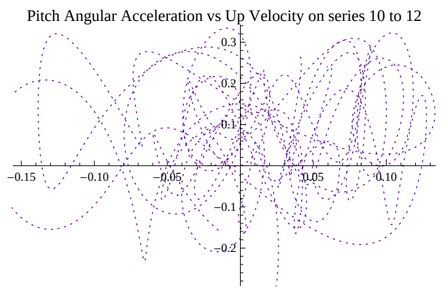
Pitch Angular Acceleration vs Up Velocity on series 4 to 6



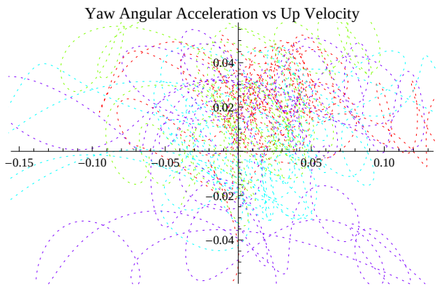
Pitch Angular Acceleration vs Up Velocity on series 7 to 9



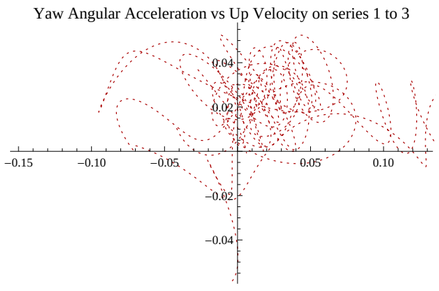
Pitch Angular Acceleration vs Up Velocity on series 10 to 12



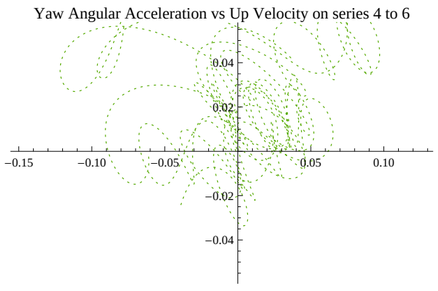
Yaw Angular Acceleration vs Up Velocity



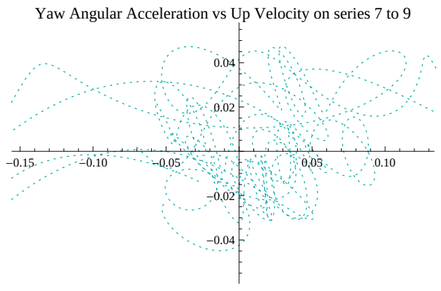
Yaw Angular Acceleration vs Up Velocity on series 1 to 3



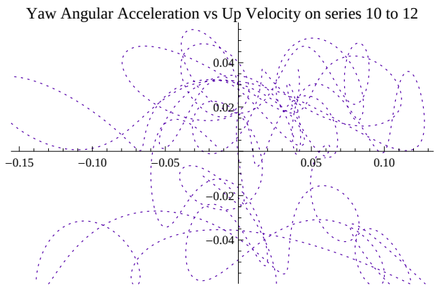
Yaw Angular Acceleration vs Up Velocity on series 4 to 6



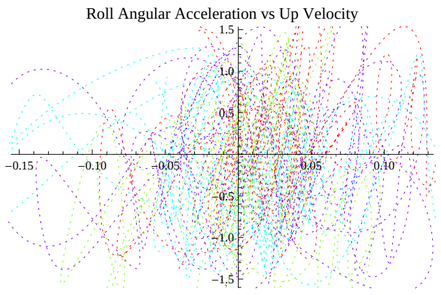
Yaw Angular Acceleration vs Up Velocity on series 7 to 9



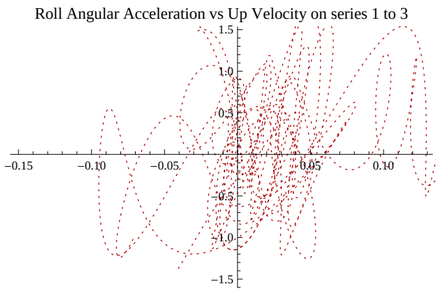
Yaw Angular Acceleration vs Up Velocity on series 10 to 12



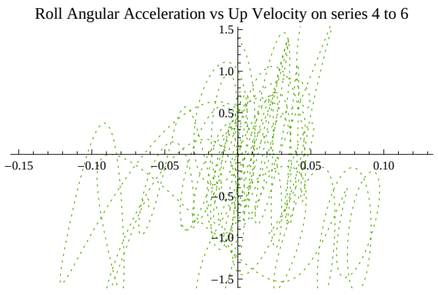
Roll Angular Acceleration vs Up Velocity



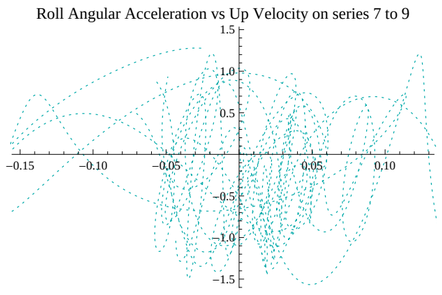
Roll Angular Acceleration vs Up Velocity on series 1 to 3



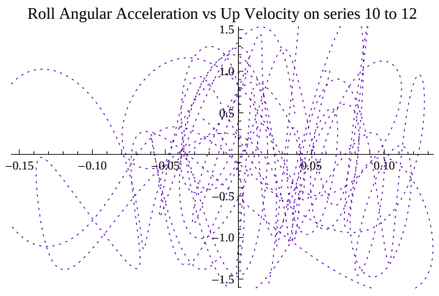
Roll Angular Acceleration vs Up Velocity on series 4 to 6



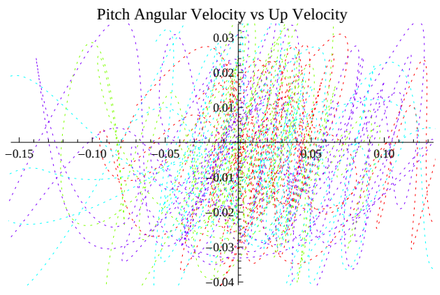
Roll Angular Acceleration vs Up Velocity on series 7 to 9



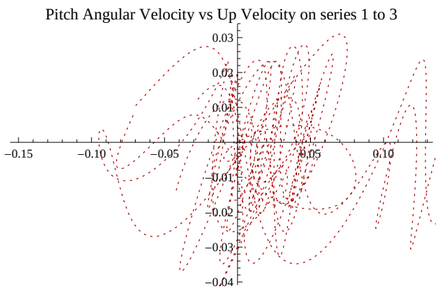
Roll Angular Acceleration vs Up Velocity on series 10 to 12



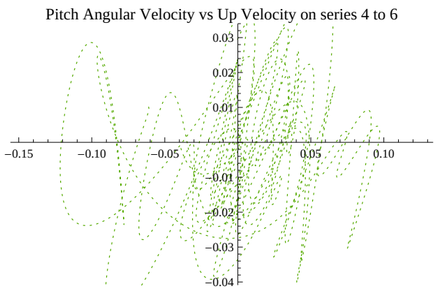
Pitch Angular Velocity vs Up Velocity



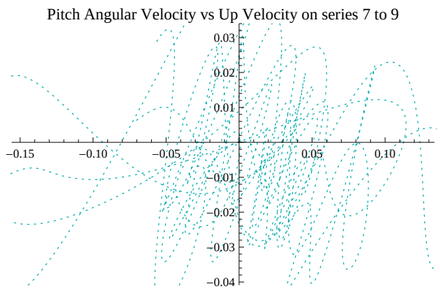
Pitch Angular Velocity vs Up Velocity on series 1 to 3



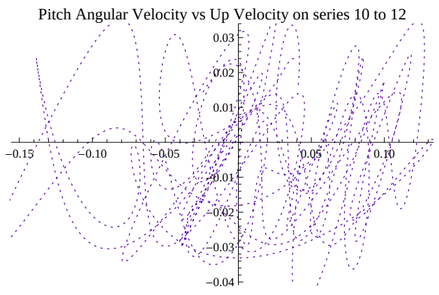
Pitch Angular Velocity vs Up Velocity on series 4 to 6



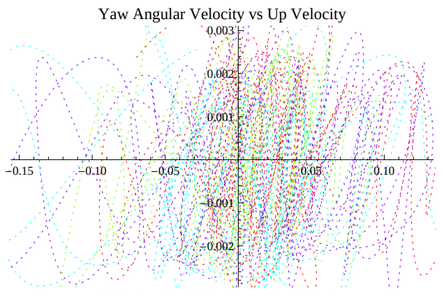
Pitch Angular Velocity vs Up Velocity on series 7 to 9



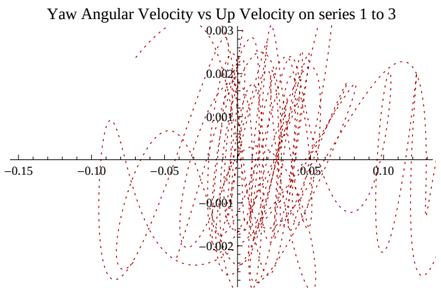
Pitch Angular Velocity vs Up Velocity on series 10 to 12



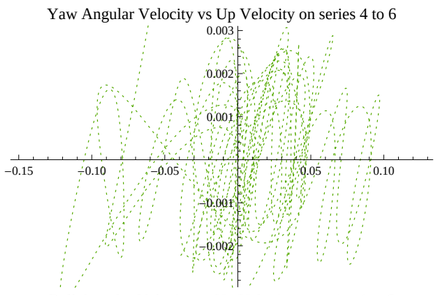
Yaw Angular Velocity vs Up Velocity



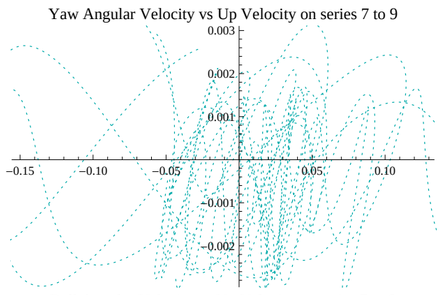
Yaw Angular Velocity vs Up Velocity on series 1 to 3



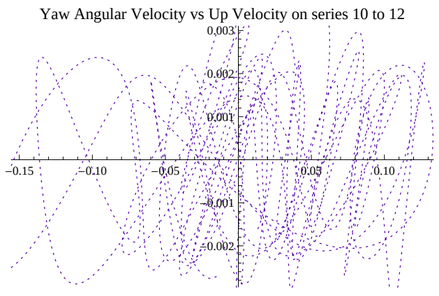
Yaw Angular Velocity vs Up Velocity on series 4 to 6



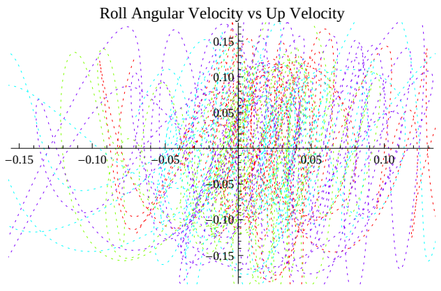
Yaw Angular Velocity vs Up Velocity on series 7 to 9



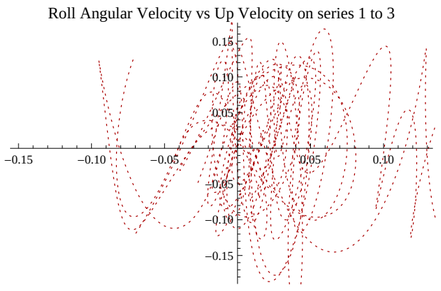
Yaw Angular Velocity vs Up Velocity on series 10 to 12



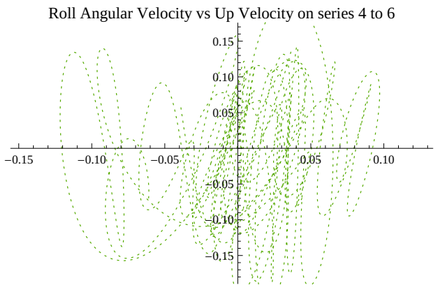
Roll Angular Velocity vs Up Velocity



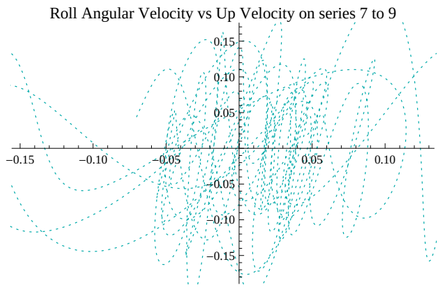
Roll Angular Velocity vs Up Velocity on series 1 to 3



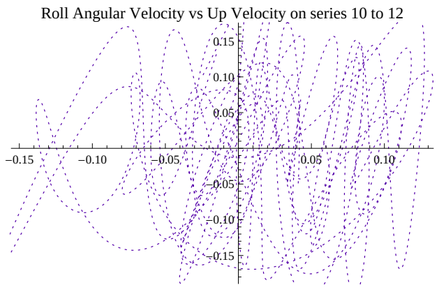
Roll Angular Velocity vs Up Velocity on series 4 to 6



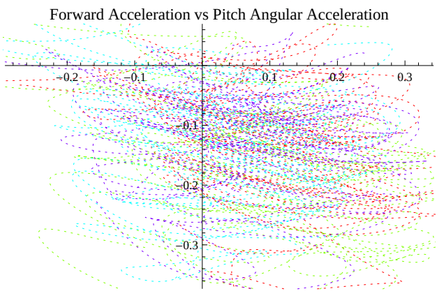
Roll Angular Velocity vs Up Velocity on series 7 to 9



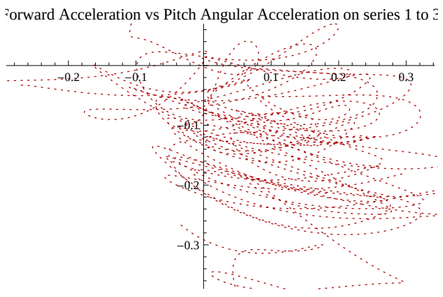
Roll Angular Velocity vs Up Velocity on series 10 to 12



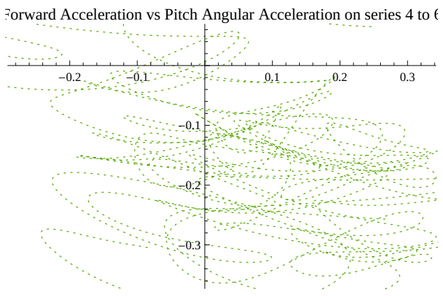
Forward Acceleration vs Pitch Angular Acceleration



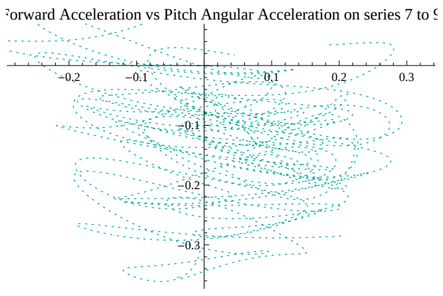
Forward Acceleration vs Pitch Angular Acceleration on series 1 to 3



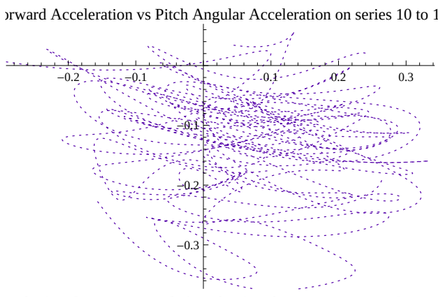
Forward Acceleration vs Pitch Angular Acceleration on series 4 to 6



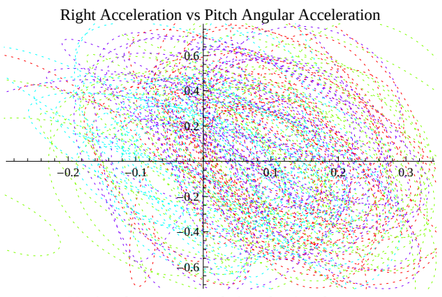
Forward Acceleration vs Pitch Angular Acceleration on series 7 to 9



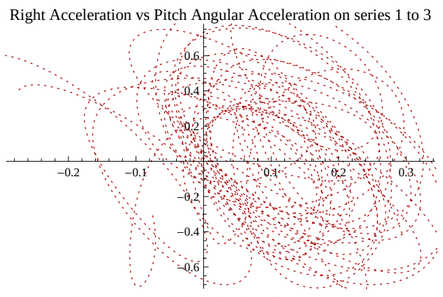
Forward Acceleration vs Pitch Angular Acceleration on series 10 to 12



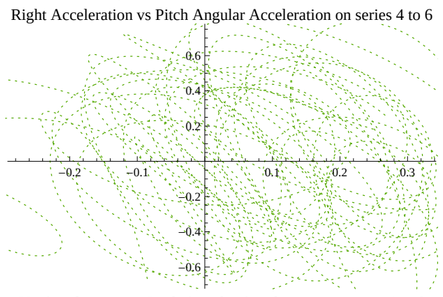
Right Acceleration vs Pitch Angular Acceleration



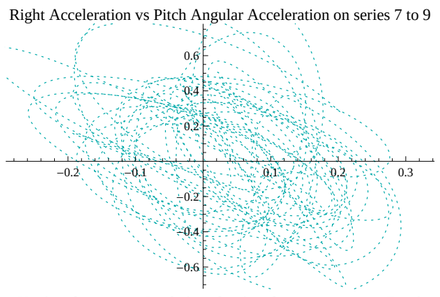
Right Acceleration vs Pitch Angular Acceleration on series 1 to 3



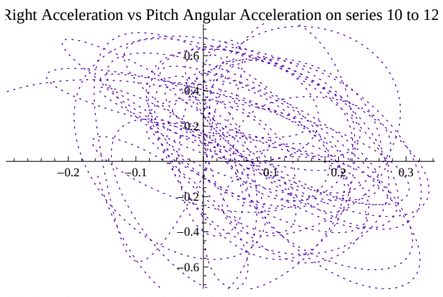
Right Acceleration vs Pitch Angular Acceleration on series 4 to 6



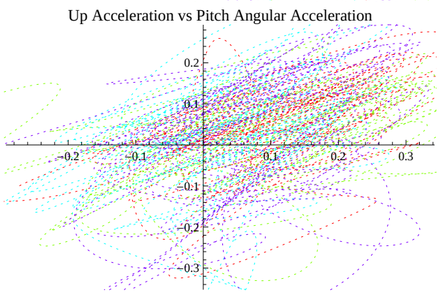
Right Acceleration vs Pitch Angular Acceleration on series 7 to 9



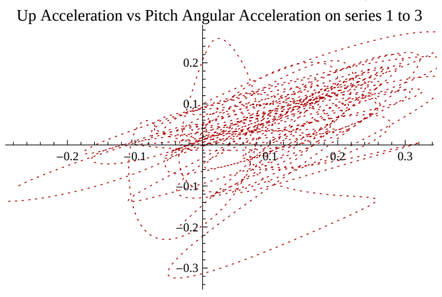
Right Acceleration vs Pitch Angular Acceleration on series 10 to 12



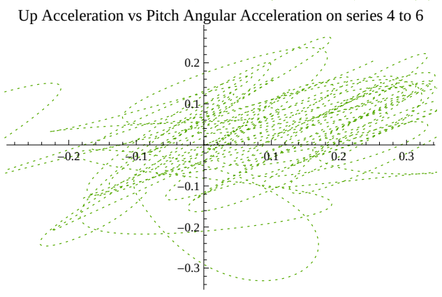
Up Acceleration vs Pitch Angular Acceleration



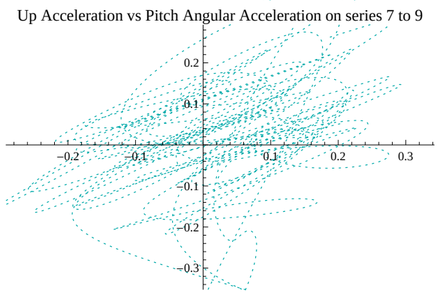
Up Acceleration vs Pitch Angular Acceleration on series 1 to 3



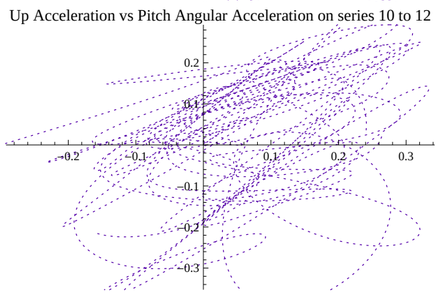
Up Acceleration vs Pitch Angular Acceleration on series 4 to 6



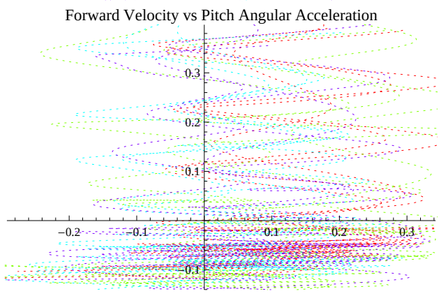
Up Acceleration vs Pitch Angular Acceleration on series 7 to 9



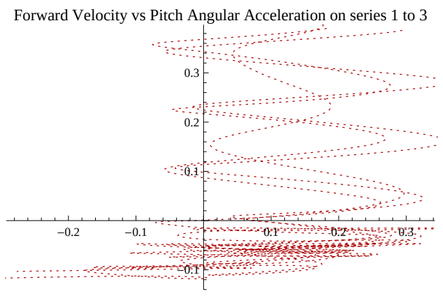
Up Acceleration vs Pitch Angular Acceleration on series 10 to 12



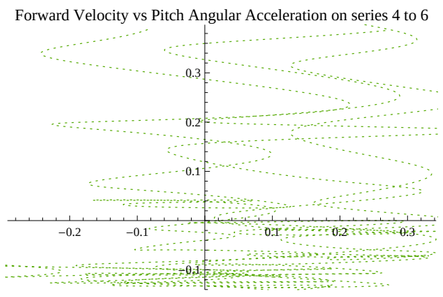
Forward Velocity vs Pitch Angular Acceleration



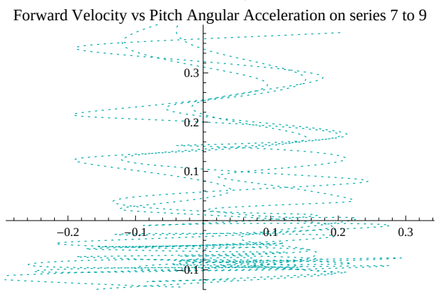
Forward Velocity vs Pitch Angular Acceleration on series 1 to 3



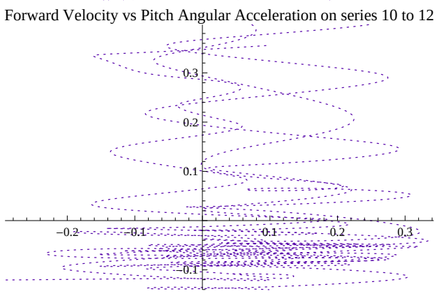
Forward Velocity vs Pitch Angular Acceleration on series 4 to 6



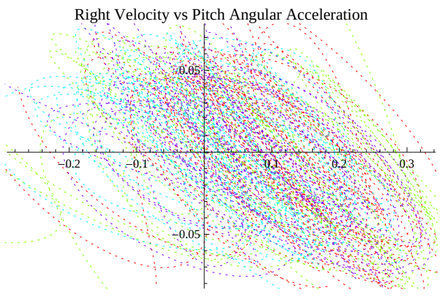
Forward Velocity vs Pitch Angular Acceleration on series 7 to 9



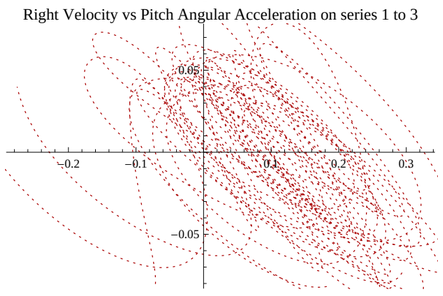
Forward Velocity vs Pitch Angular Acceleration on series 10 to 12



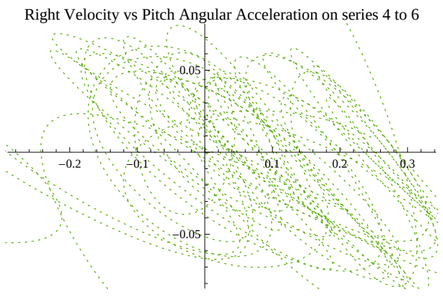
Right Velocity vs Pitch Angular Acceleration



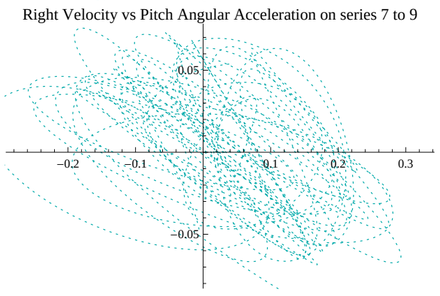
Right Velocity vs Pitch Angular Acceleration on series 1 to 3



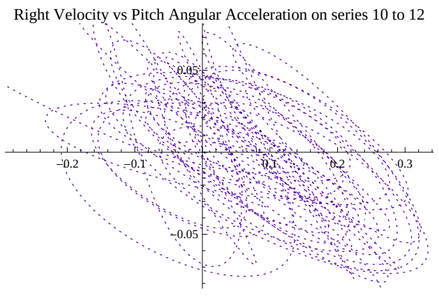
Right Velocity vs Pitch Angular Acceleration on series 4 to 6



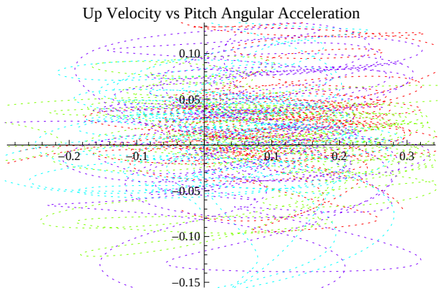
Right Velocity vs Pitch Angular Acceleration on series 7 to 9



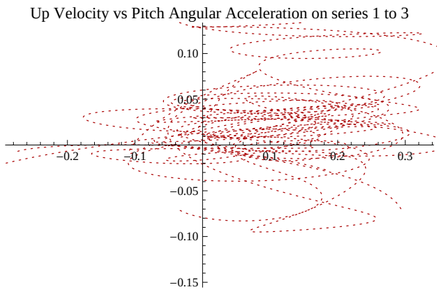
Right Velocity vs Pitch Angular Acceleration on series 10 to 12



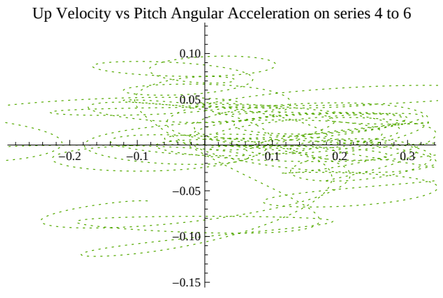
Up Velocity vs Pitch Angular Acceleration



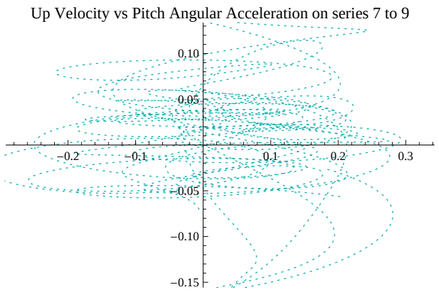
Up Velocity vs Pitch Angular Acceleration on series 1 to 3



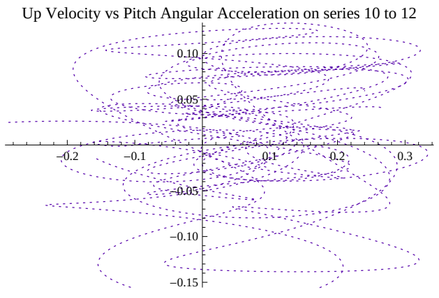
Up Velocity vs Pitch Angular Acceleration on series 4 to 6

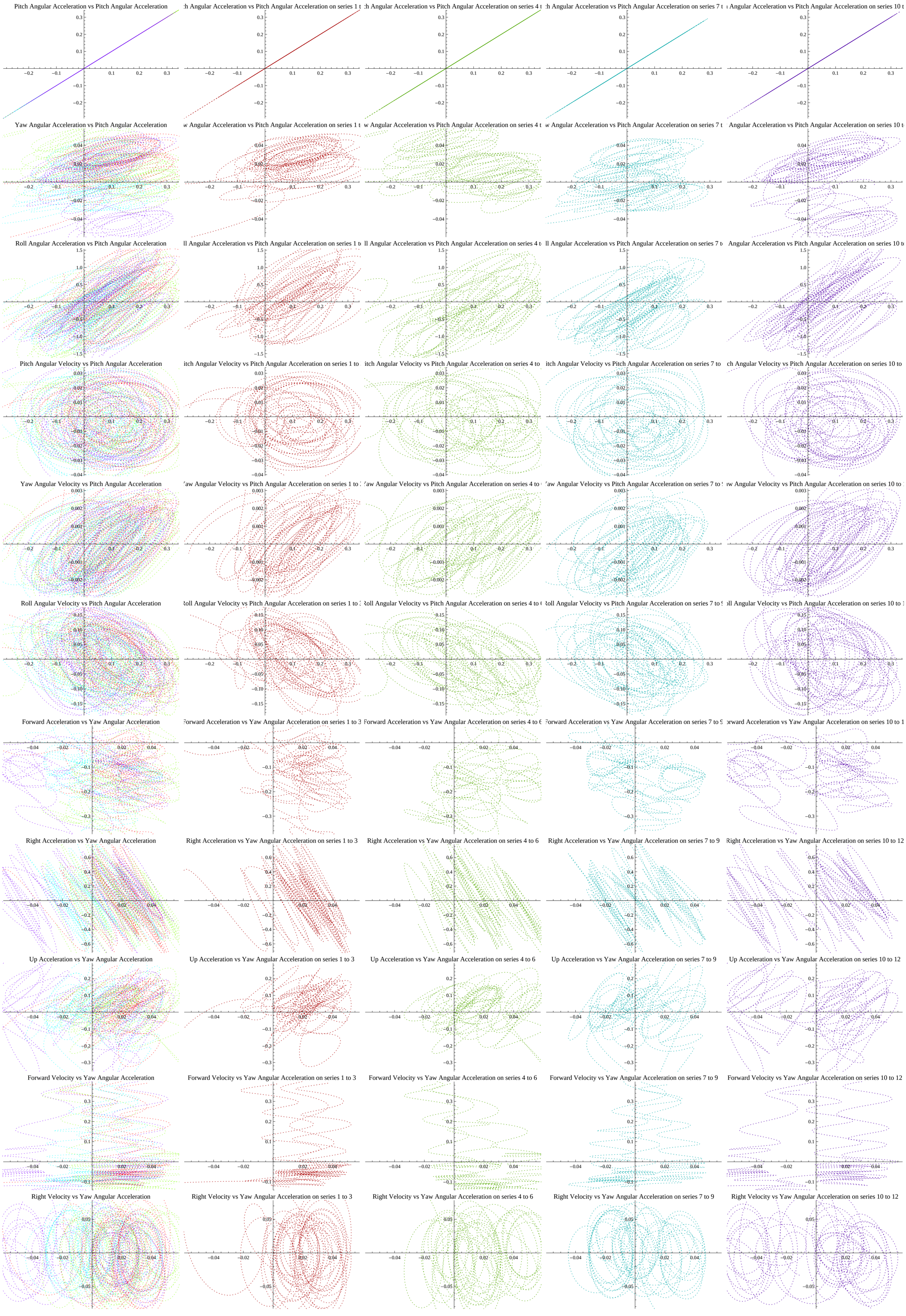


Up Velocity vs Pitch Angular Acceleration on series 7 to 9



Up Velocity vs Pitch Angular Acceleration on series 10 to 12




Pitch Angular Acceleration vs Pitch Angular Acceleration
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:h Angular Acceleration vs Pitch Angular Acceleration on series 4 t
:h Angular Acceleration vs Pitch Angular Acceleration on series 7 t
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Yaw Angular Acceleration vs Pitch Angular Acceleration
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w Angular Acceleration vs Pitch Angular Acceleration on series 4 t
w Angular Acceleration vs Pitch Angular Acceleration on series 7 t
Angular Acceleration vs Pitch Angular Acceleration on series 10 t
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Forward Acceleration vs Yaw Angular Acceleration
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Forward Acceleration vs Yaw Angular Acceleration on series 4 to 6
Forward Acceleration vs Yaw Angular Acceleration on series 7 to 9
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Right Acceleration vs Yaw Angular Acceleration
Right Acceleration vs Yaw Angular Acceleration on series 1 to 3
Right Acceleration vs Yaw Angular Acceleration on series 4 to 6
Right Acceleration vs Yaw Angular Acceleration on series 7 to 9
Right Acceleration vs Yaw Angular Acceleration on series 10 to 12
Up Acceleration vs Yaw Angular Acceleration
Up Acceleration vs Yaw Angular Acceleration on series 1 to 3
Up Acceleration vs Yaw Angular Acceleration on series 4 to 6
Up Acceleration vs Yaw Angular Acceleration on series 7 to 9
Up Acceleration vs Yaw Angular Acceleration on series 10 to 12
Forward Velocity vs Yaw Angular Acceleration
Forward Velocity vs Yaw Angular Acceleration on series 1 to 3
Forward Velocity vs Yaw Angular Acceleration on series 4 to 6
Forward Velocity vs Yaw Angular Acceleration on series 7 to 9
Forward Velocity vs Yaw Angular Acceleration on series 10 to 12
Right Velocity vs Yaw Angular Acceleration
Right Velocity vs Yaw Angular Acceleration on series 1 to 3
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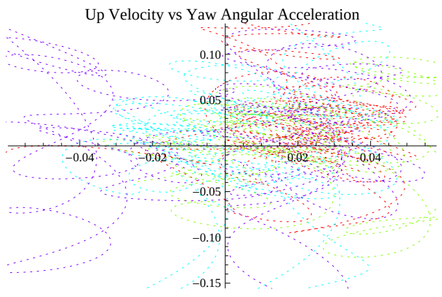
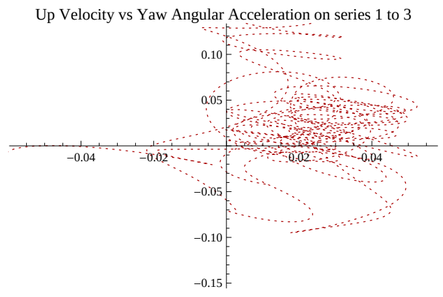
Right Velocity vs Yaw Angular Acceleration on series 10 to 12

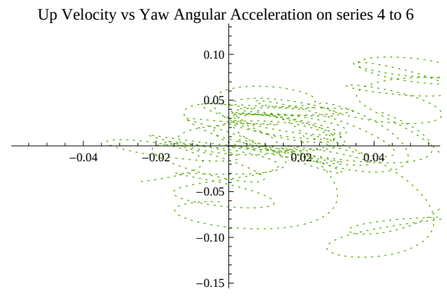
Up Velocity vs Yaw Angular Acceleration



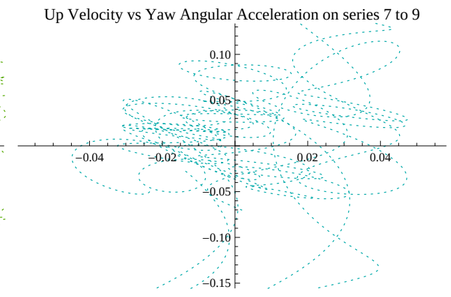
Up Velocity vs Yaw Angular Acceleration on series 1 to 3



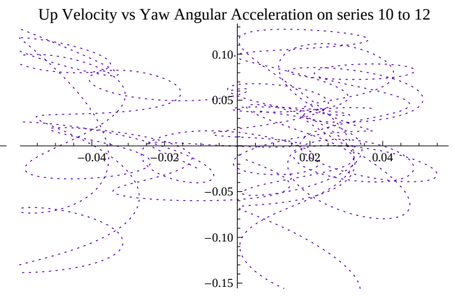
Up Velocity vs Yaw Angular Acceleration on series 4 to 6



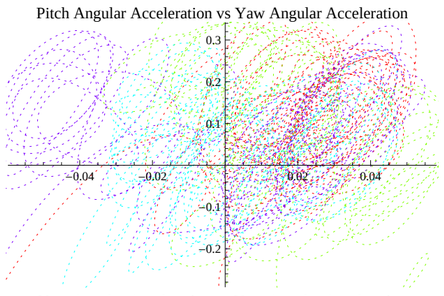
Up Velocity vs Yaw Angular Acceleration on series 7 to 9



Up Velocity vs Yaw Angular Acceleration on series 10 to 12



Pitch Angular Acceleration vs Yaw Angular Acceleration



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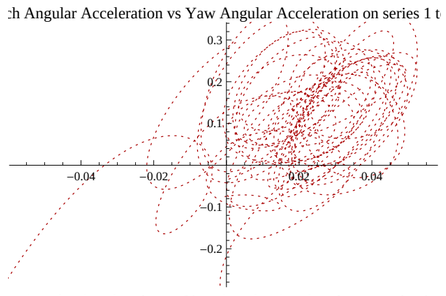

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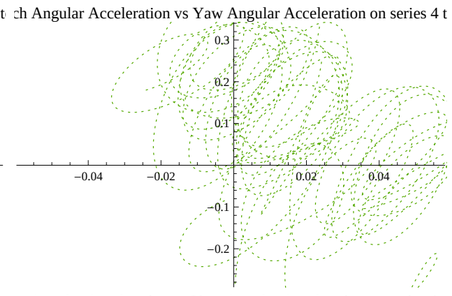

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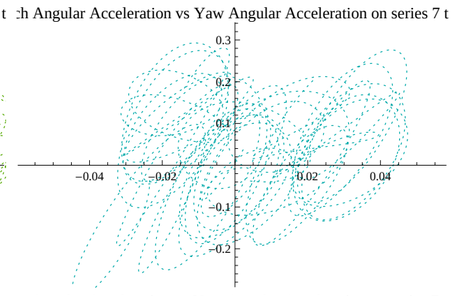

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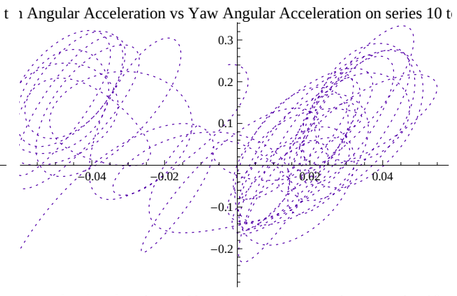

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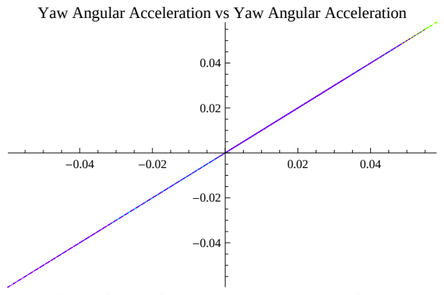

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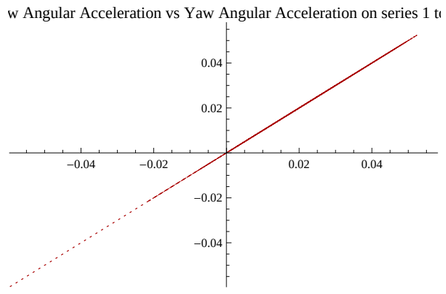

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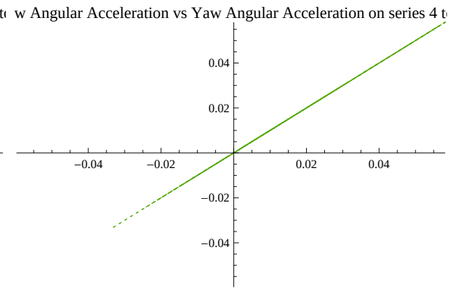

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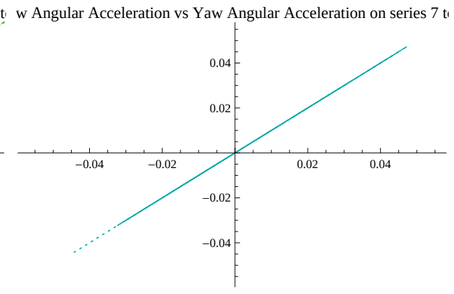

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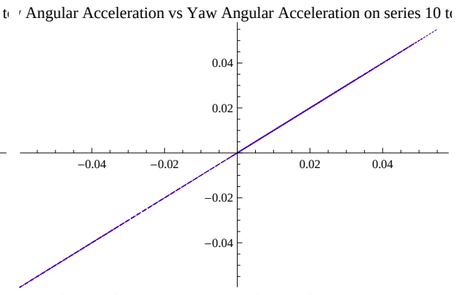
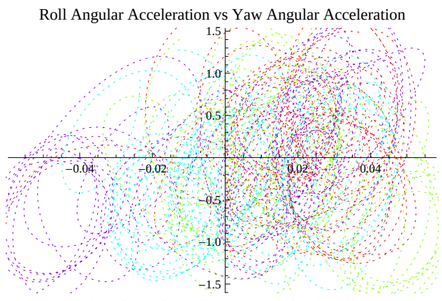


Roll Angular Acceleration vs Yaw Angular Acceleration



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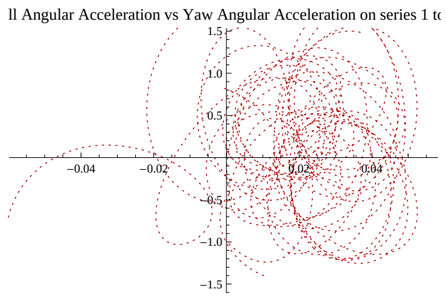

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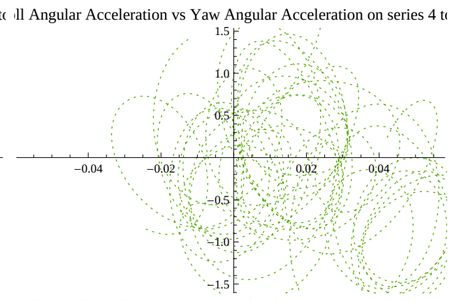

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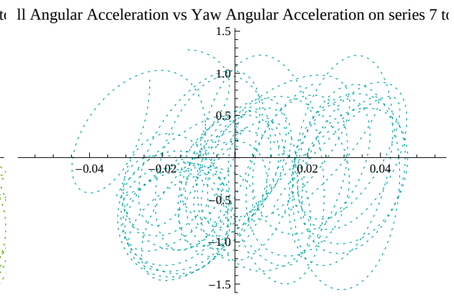
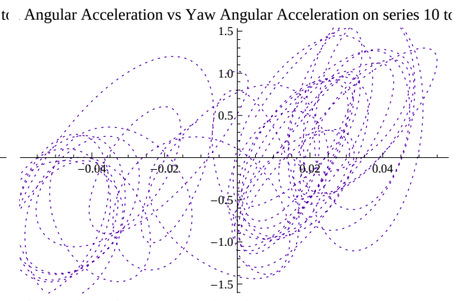
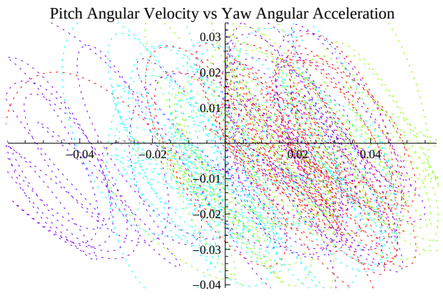


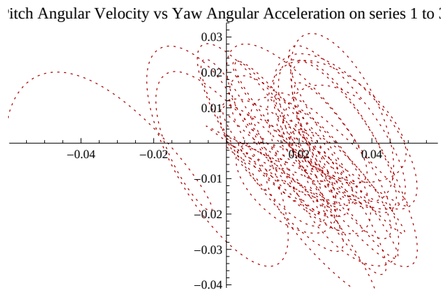
Angular Acceleration vs Yaw Angular Acceleration on series 10 t



Pitch Angular Velocity vs Yaw Angular Acceleration



itch Angular Velocity vs Yaw Angular Acceleration on series 1 to



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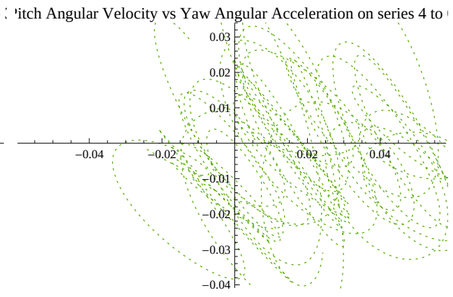

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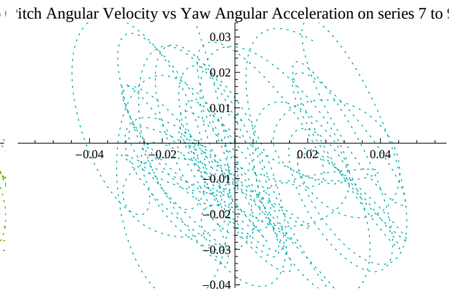

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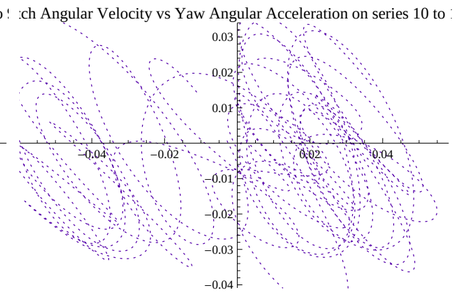
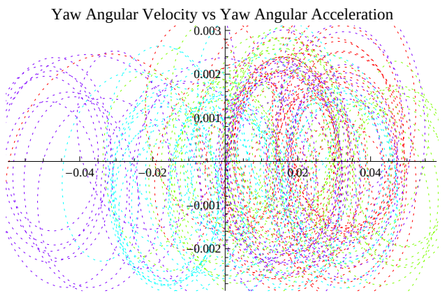


Yaw Angular Velocity vs Yaw Angular Acceleration



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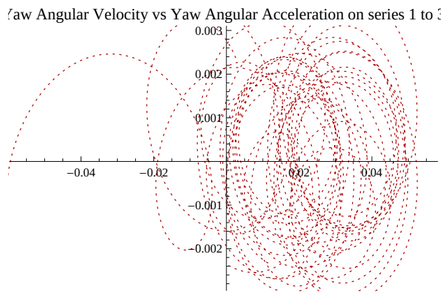

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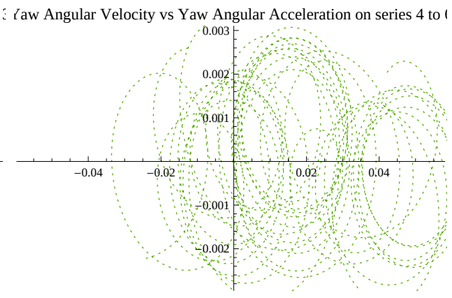

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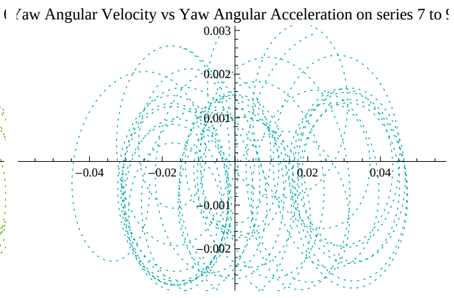

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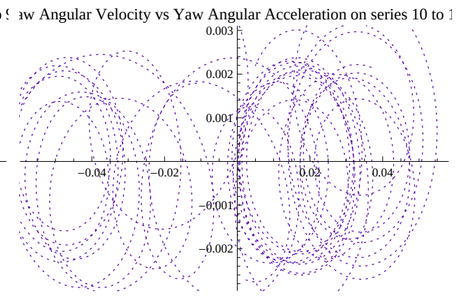
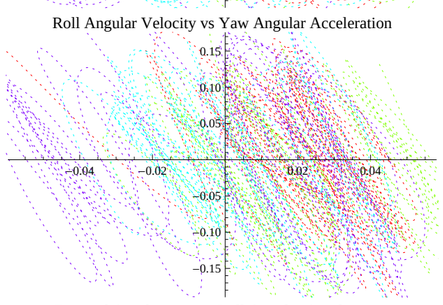
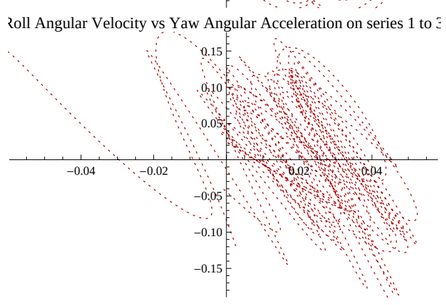


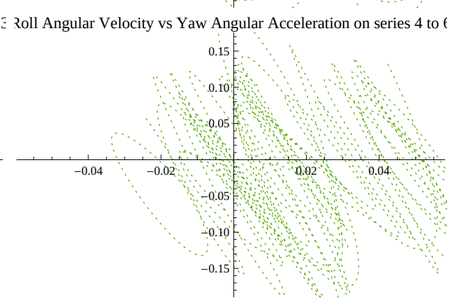
Roll Angular Velocity vs Yaw Angular Acceleration



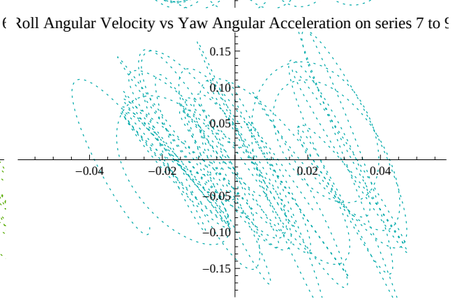
Roll Angular Velocity vs Yaw Angular Acceleration on series 1 to 3



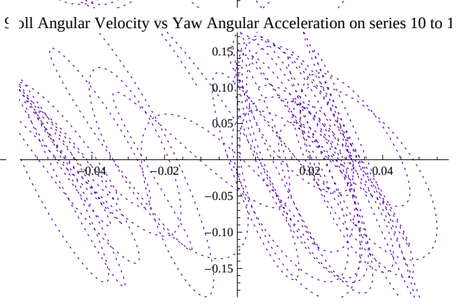
Roll Angular Velocity vs Yaw Angular Acceleration on series 4 to 6



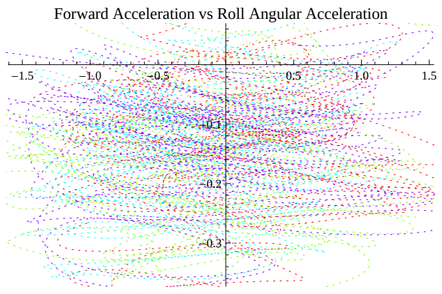
Roll Angular Velocity vs Yaw Angular Acceleration on series 7 to 9



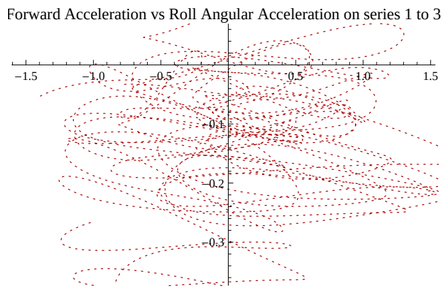
ll Angular Velocity vs Yaw Angular Acceleration on series 10 to 1



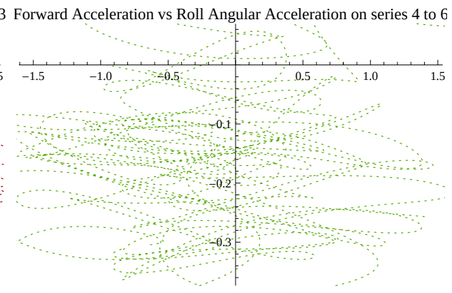
Forward Acceleration vs Roll Angular Acceleration



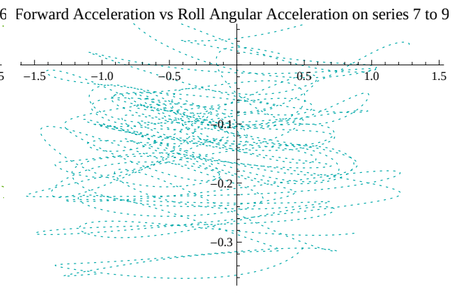
Forward Acceleration vs Roll Angular Acceleration on series 1 to 3



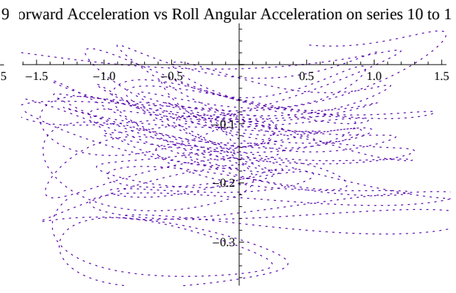
Forward Acceleration vs Roll Angular Acceleration on series 4 to 6



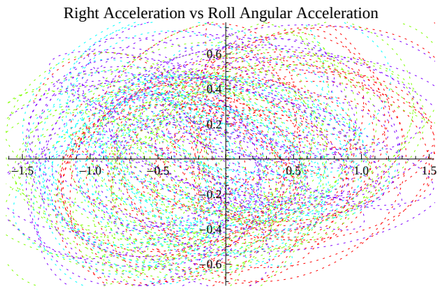
Forward Acceleration vs Roll Angular Acceleration on series 7 to 9



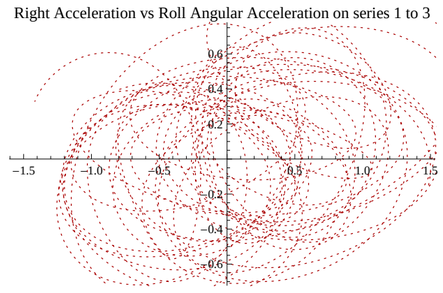
orward Acceleration vs Roll Angular Acceleration on series 10 to 1



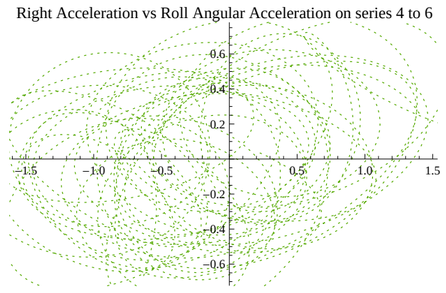
Right Acceleration vs Roll Angular Acceleration



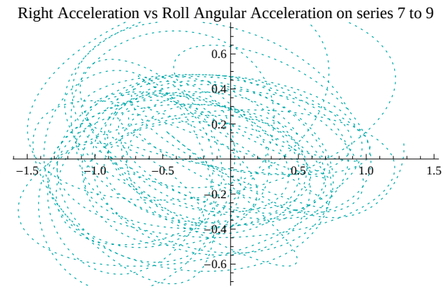
Right Acceleration vs Roll Angular Acceleration on series 1 to 3



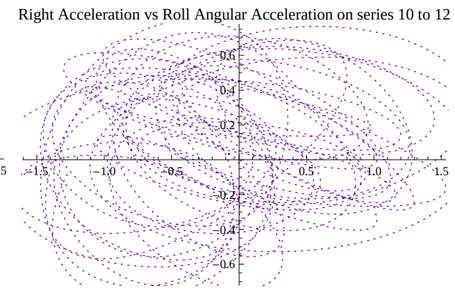
Right Acceleration vs Roll Angular Acceleration on series 4 to 6



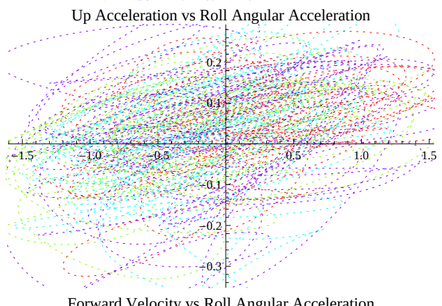
Right Acceleration vs Roll Angular Acceleration on series 7 to 9



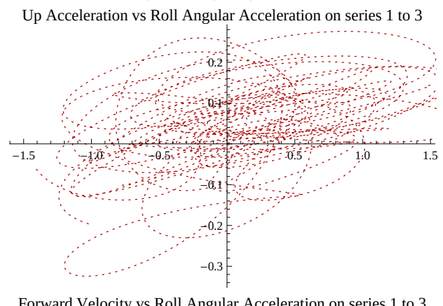
Right Acceleration vs Roll Angular Acceleration on series 10 to 12



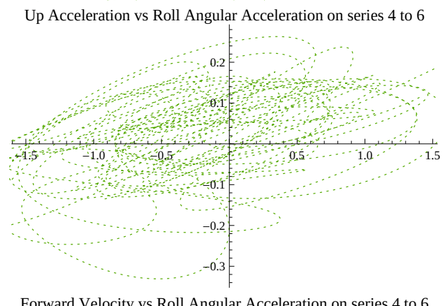
Up Acceleration vs Roll Angular Acceleration



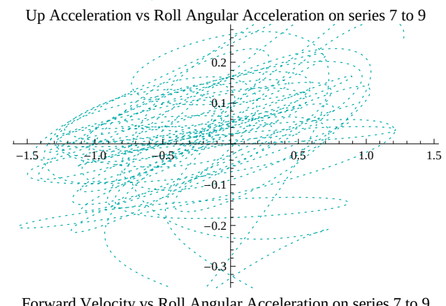
Up Acceleration vs Roll Angular Acceleration on series 1 to 3



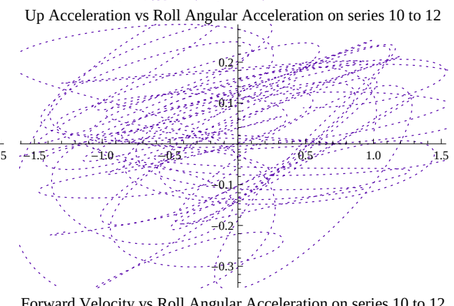
Up Acceleration vs Roll Angular Acceleration on series 4 to 6



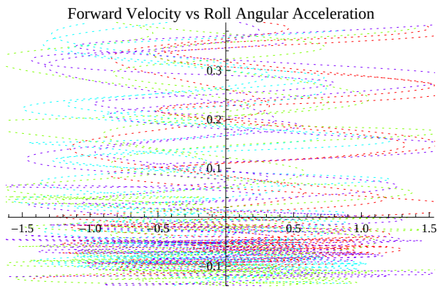
Up Acceleration vs Roll Angular Acceleration on series 7 to 9



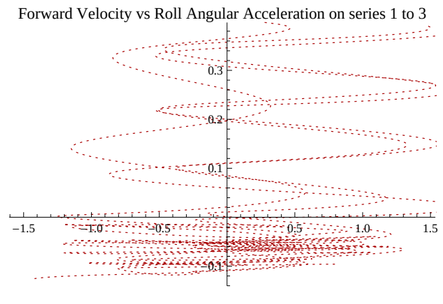
Up Acceleration vs Roll Angular Acceleration on series 10 to 12



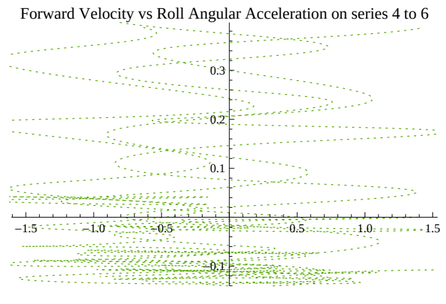
Forward Velocity vs Roll Angular Acceleration



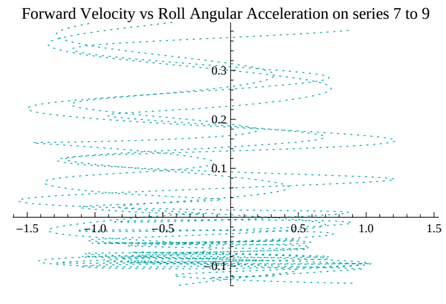
Forward Velocity vs Roll Angular Acceleration on series 1 to 3



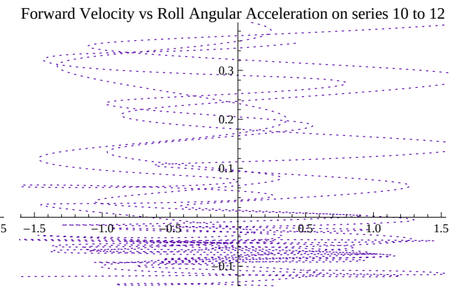
Forward Velocity vs Roll Angular Acceleration on series 4 to 6

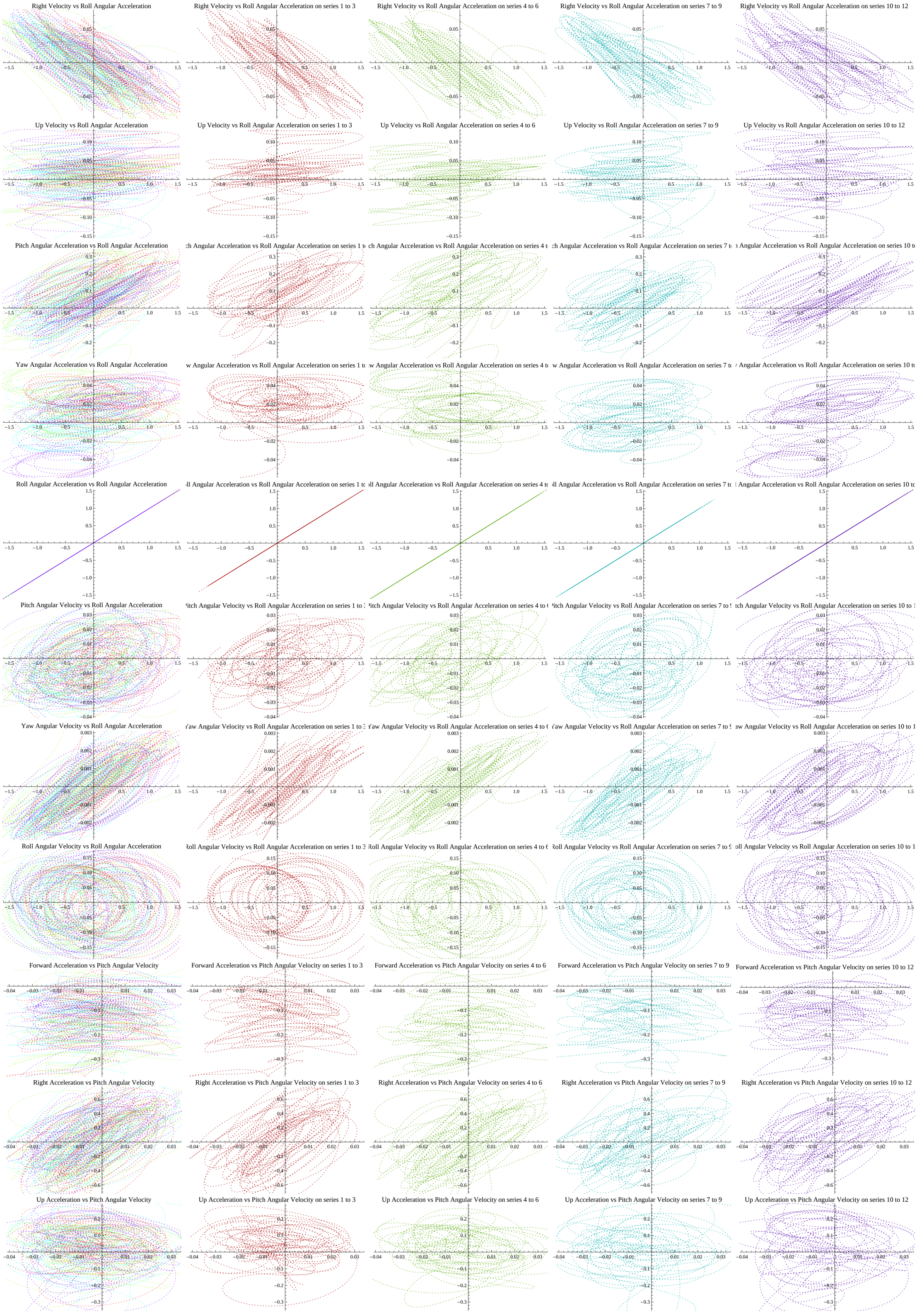


Forward Velocity vs Roll Angular Acceleration on series 7 to 9

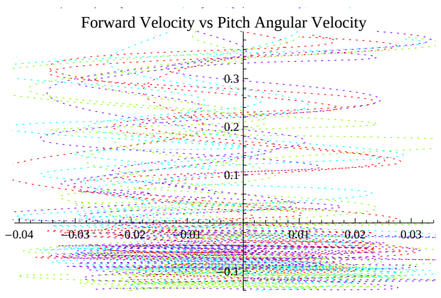


Forward Velocity vs Roll Angular Acceleration on series 10 to 12

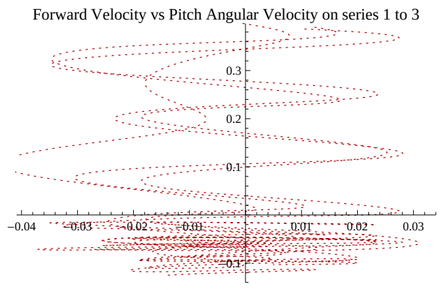



Right Velocity vs Roll Angular Acceleration
Right Velocity vs Roll Angular Acceleration on series 1 to 3
Right Velocity vs Roll Angular Acceleration on series 4 to 6
Right Velocity vs Roll Angular Acceleration on series 7 to 9
Right Velocity vs Roll Angular Acceleration on series 10 to 12
Up Velocity vs Roll Angular Acceleration
Up Velocity vs Roll Angular Acceleration on series 1 to 3
Up Velocity vs Roll Angular Acceleration on series 4 to 6
Up Velocity vs Roll Angular Acceleration on series 7 to 9
Up Velocity vs Roll Angular Acceleration on series 10 to 12
Pitch Angular Acceleration vs Roll Angular Acceleration
Yaw Angular Acceleration vs Roll Angular Acceleration
Roll Angular Acceleration vs Roll Angular Acceleration
Pitch Angular Velocity vs Roll Angular Acceleration
Yaw Angular Velocity vs Roll Angular Acceleration
Roll Angular Velocity vs Roll Angular Acceleration
Forward Acceleration vs Pitch Angular Velocity
Forward Acceleration vs Pitch Angular Velocity on series 1 to 3
Forward Acceleration vs Pitch Angular Velocity on series 4 to 6
Forward Acceleration vs Pitch Angular Velocity on series 7 to 9
Forward Acceleration vs Pitch Angular Velocity on series 10 to 12
Right Acceleration vs Pitch Angular Velocity
Right Acceleration vs Pitch Angular Velocity on series 1 to 3
Right Acceleration vs Pitch Angular Velocity on series 4 to 6
Right Acceleration vs Pitch Angular Velocity on series 7 to 9
Right Acceleration vs Pitch Angular Velocity on series 10 to 12
Up Acceleration vs Pitch Angular Velocity
Up Acceleration vs Pitch Angular Velocity on series 1 to 3
Up Acceleration vs Pitch Angular Velocity on series 4 to 6
Up Acceleration vs Pitch Angular Velocity on series 7 to 9
Up Acceleration vs Pitch Angular Velocity on series 10 to 12

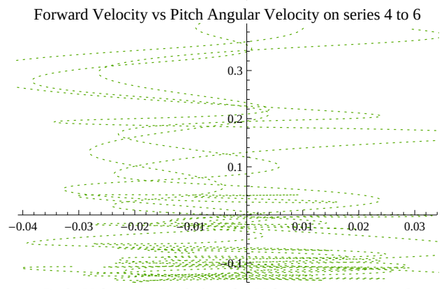
Forward Velocity vs Pitch Angular Velocity



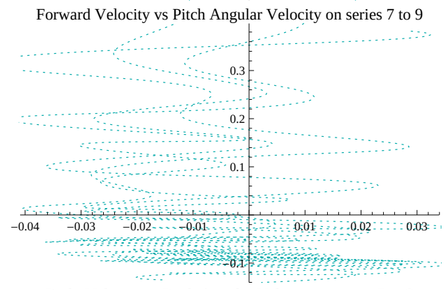
Forward Velocity vs Pitch Angular Velocity on series 1 to 3



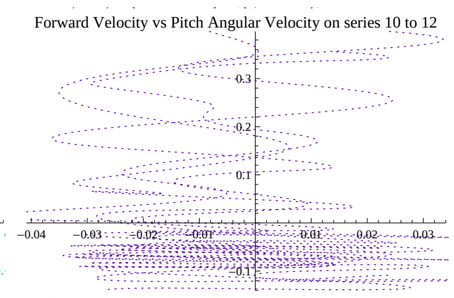
Forward Velocity vs Pitch Angular Velocity on series 4 to 6



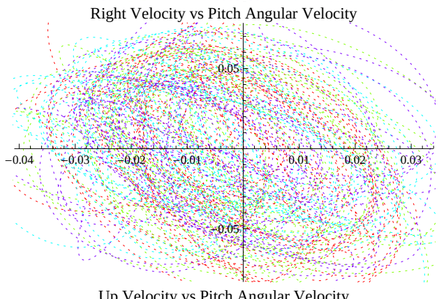
Forward Velocity vs Pitch Angular Velocity on series 7 to 9



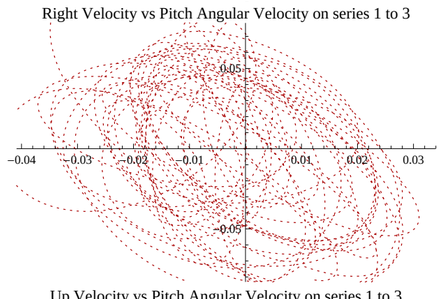
Forward Velocity vs Pitch Angular Velocity on series 10 to 12



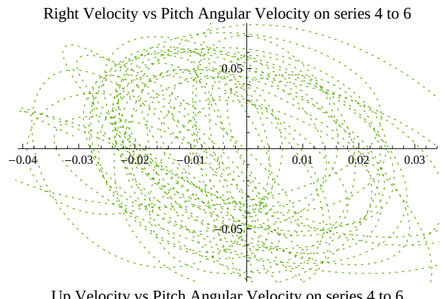
Right Velocity vs Pitch Angular Velocity



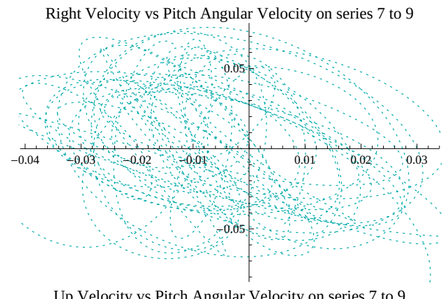
Right Velocity vs Pitch Angular Velocity on series 1 to 3



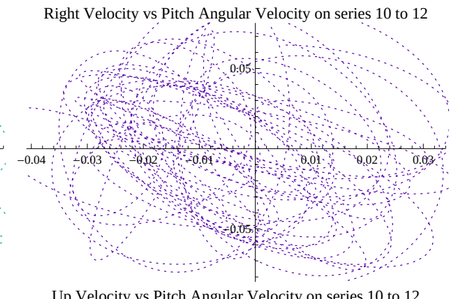
Right Velocity vs Pitch Angular Velocity on series 4 to 6



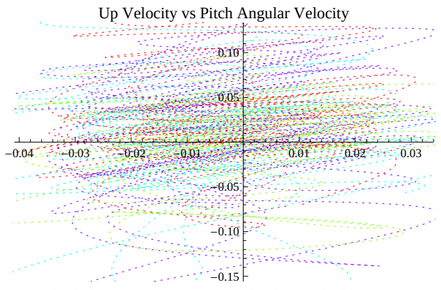
Right Velocity vs Pitch Angular Velocity on series 7 to 9



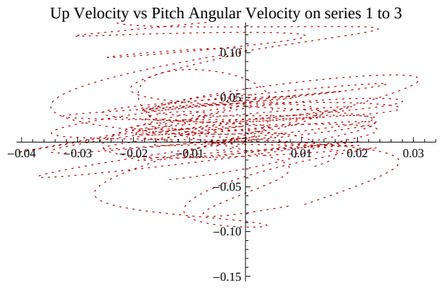
Right Velocity vs Pitch Angular Velocity on series 10 to 12



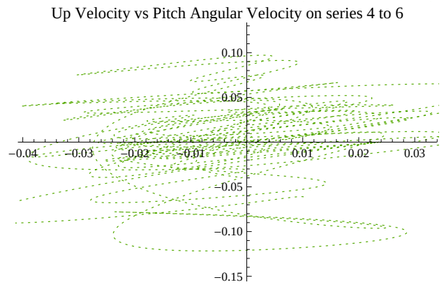
Up Velocity vs Pitch Angular Velocity



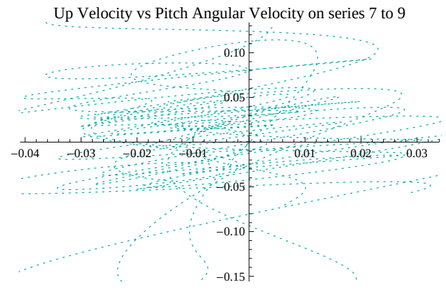
Up Velocity vs Pitch Angular Velocity on series 1 to 3



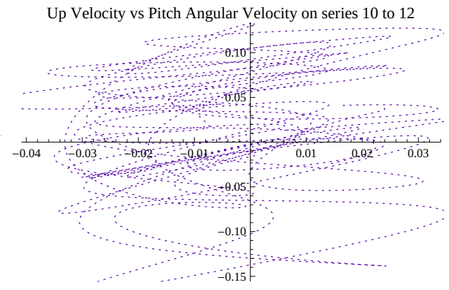
Up Velocity vs Pitch Angular Velocity on series 4 to 6



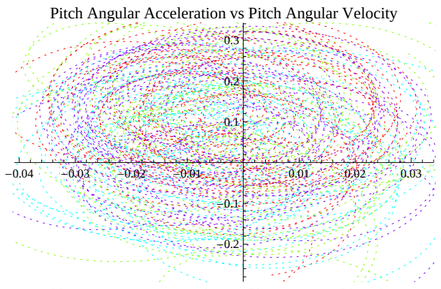
Up Velocity vs Pitch Angular Velocity on series 7 to 9



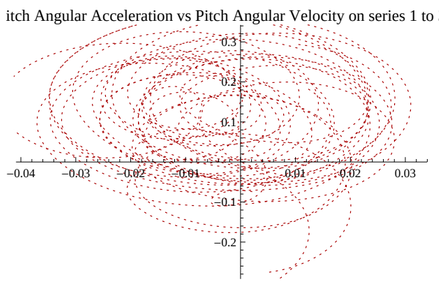
Up Velocity vs Pitch Angular Velocity on series 10 to 12



Pitch Angular Acceleration vs Pitch Angular Velocity



itch Angular Acceleration vs Pitch Angular Velocity on series 1 to



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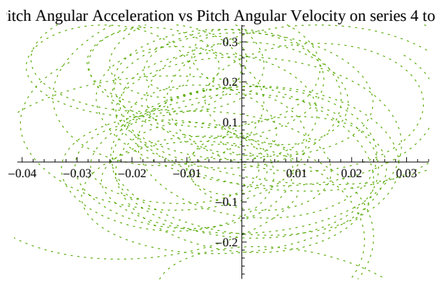

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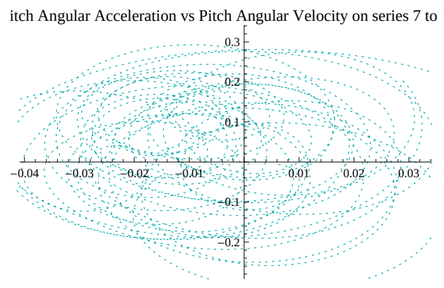

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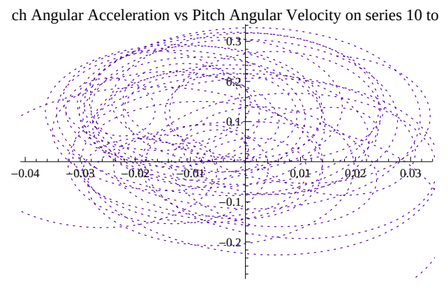
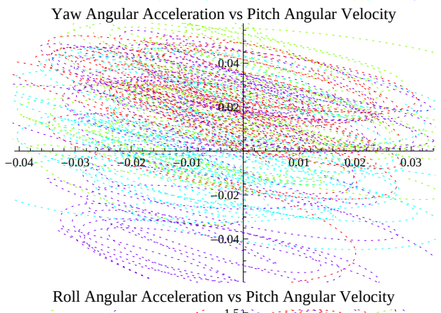
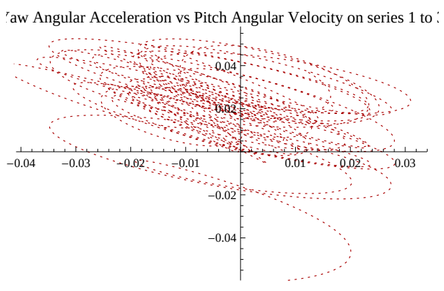


Yaw Angular Acceleration vs Pitch Angular Velocity



/aw Angular Acceleration vs Pitch Angular Velocity on series 1 to



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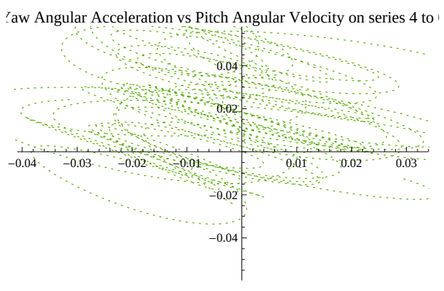

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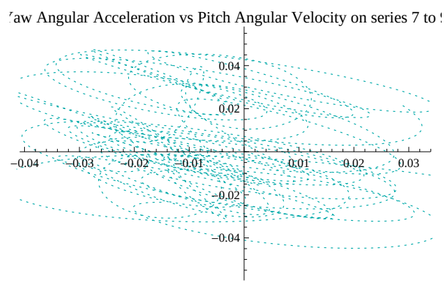
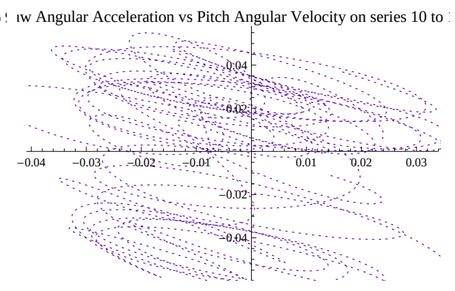
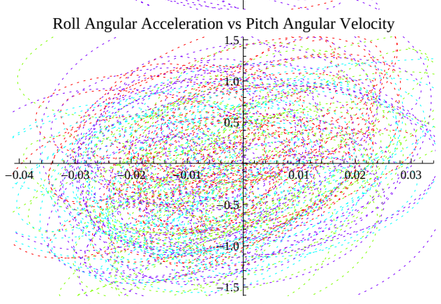


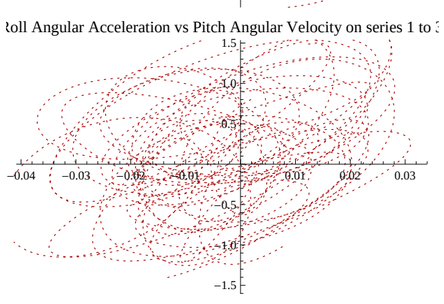
w Angular Acceleration vs Pitch Angular Velocity on series 10 to



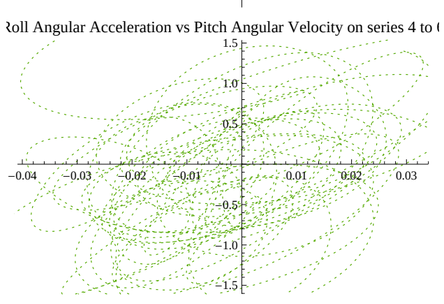
Roll Angular Acceleration vs Pitch Angular Velocity



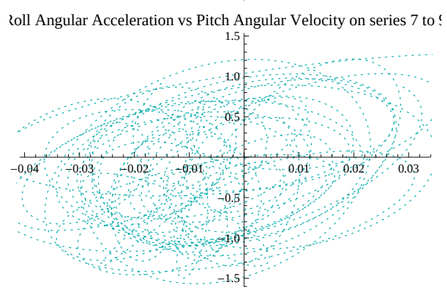
Roll Angular Acceleration vs Pitch Angular Velocity on series 1 to



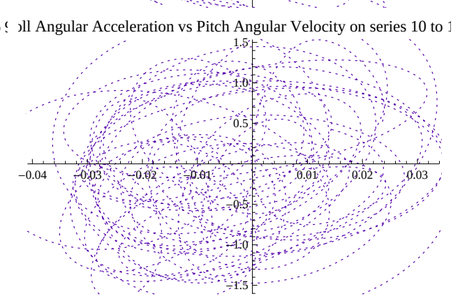
Roll Angular Acceleration vs Pitch Angular Velocity on series 4 to



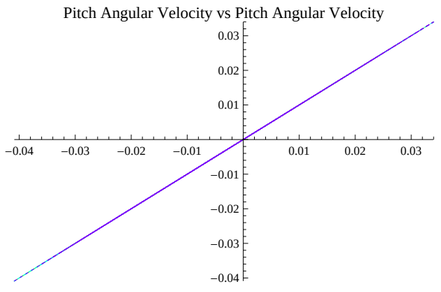
Roll Angular Acceleration vs Pitch Angular Velocity on series 7 to



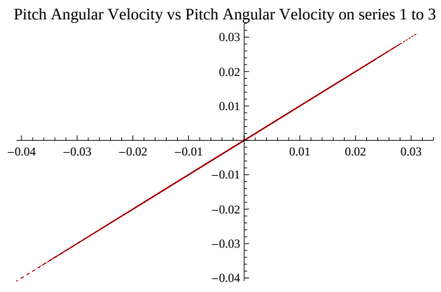
ll Angular Acceleration vs Pitch Angular Velocity on series 10 to



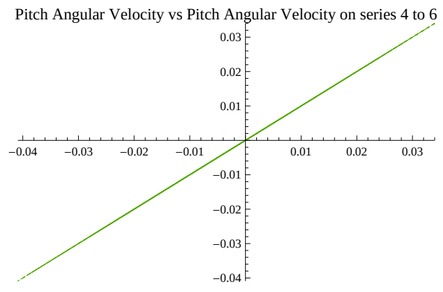
Pitch Angular Velocity vs Pitch Angular Velocity



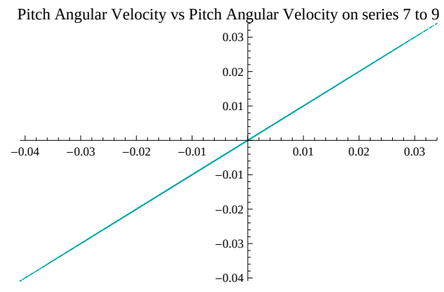
Pitch Angular Velocity vs Pitch Angular Velocity on series 1 to 3



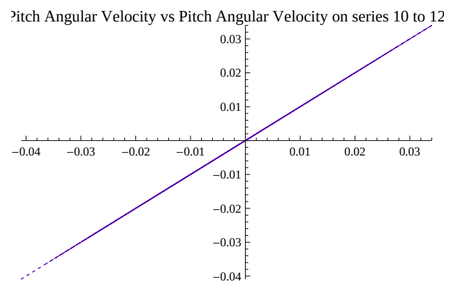
Pitch Angular Velocity vs Pitch Angular Velocity on series 4 to 6



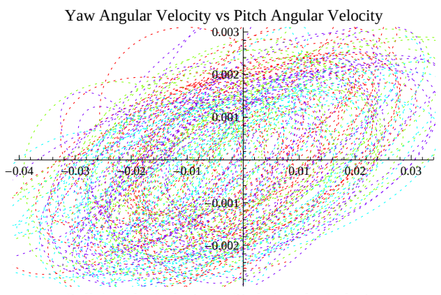
Pitch Angular Velocity vs Pitch Angular Velocity on series 7 to 9



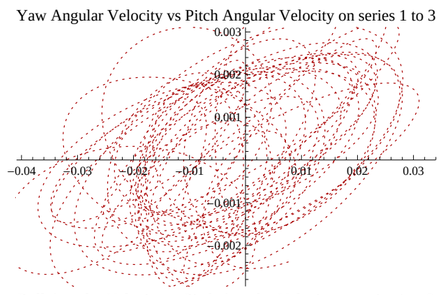
Pitch Angular Velocity vs Pitch Angular Velocity on series 10 to 12



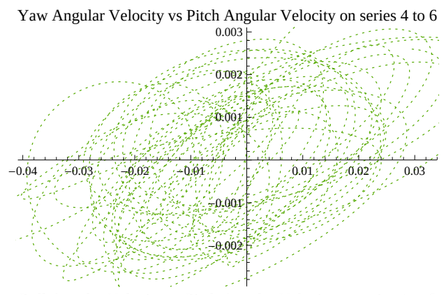
Yaw Angular Velocity vs Pitch Angular Velocity



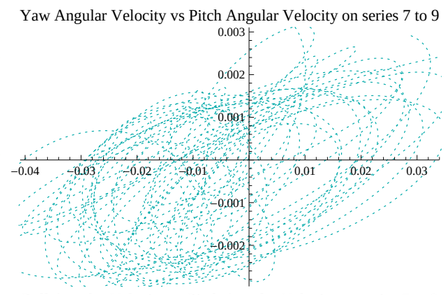
Yaw Angular Velocity vs Pitch Angular Velocity on series 1 to 3



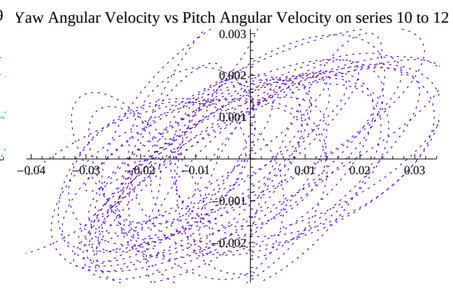
Yaw Angular Velocity vs Pitch Angular Velocity on series 4 to 6



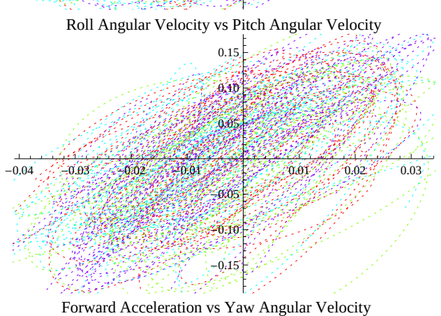
Yaw Angular Velocity vs Pitch Angular Velocity on series 7 to 9



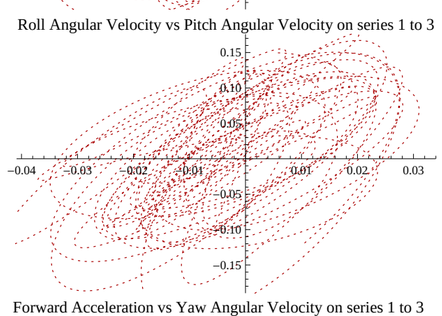
Yaw Angular Velocity vs Pitch Angular Velocity on series 10 to 12



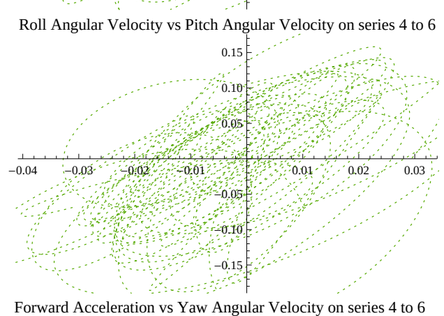
Roll Angular Velocity vs Pitch Angular Velocity



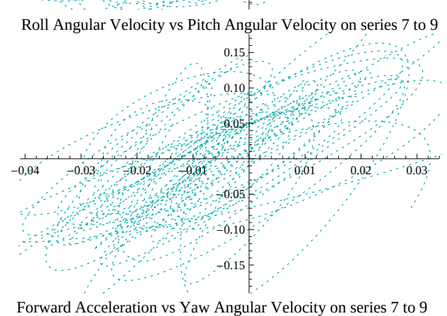
Roll Angular Velocity vs Pitch Angular Velocity on series 1 to 3



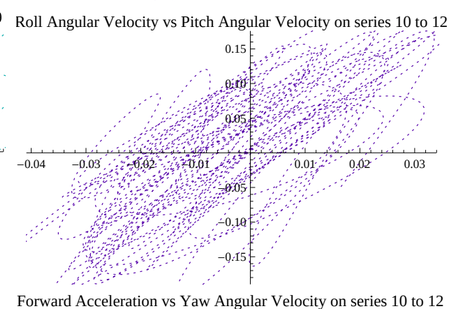
Roll Angular Velocity vs Pitch Angular Velocity on series 4 to 6



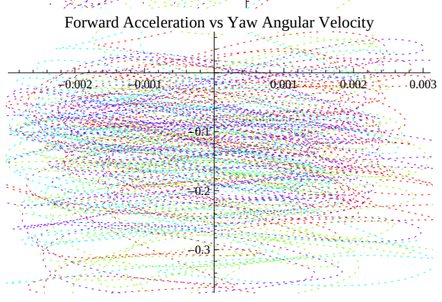
Roll Angular Velocity vs Pitch Angular Velocity on series 7 to 9



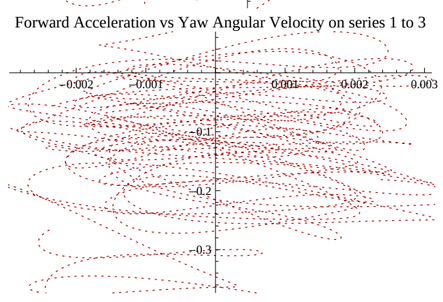
Roll Angular Velocity vs Pitch Angular Velocity on series 10 to 12



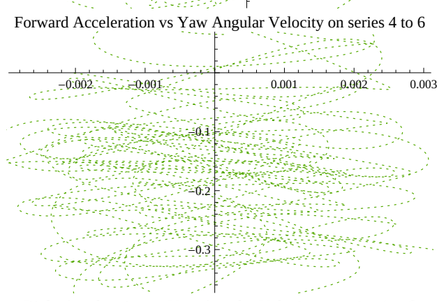
Forward Acceleration vs Yaw Angular Velocity



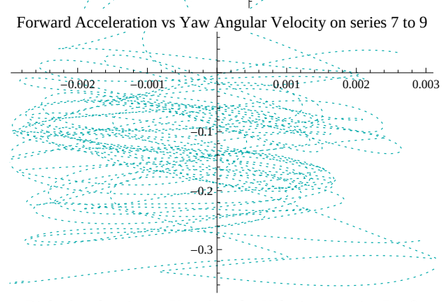
Forward Acceleration vs Yaw Angular Velocity on series 1 to 3



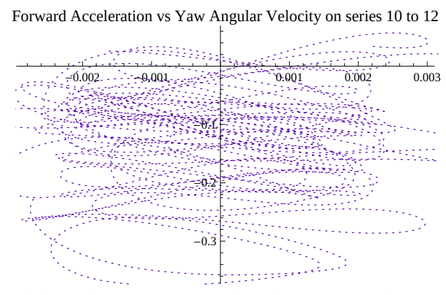
Forward Acceleration vs Yaw Angular Velocity on series 4 to 6



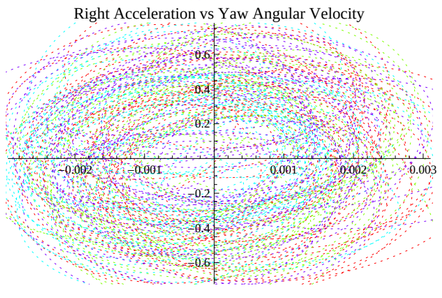
Forward Acceleration vs Yaw Angular Velocity on series 7 to 9



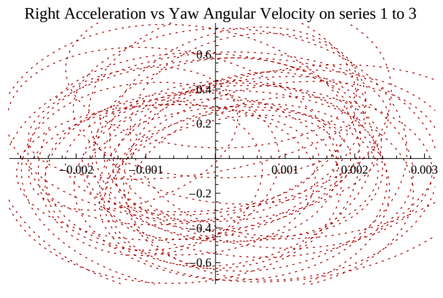
Forward Acceleration vs Yaw Angular Velocity on series 10 to 12



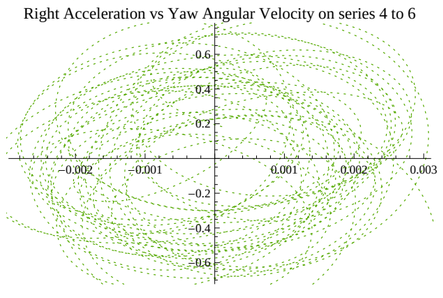
Right Acceleration vs Yaw Angular Velocity



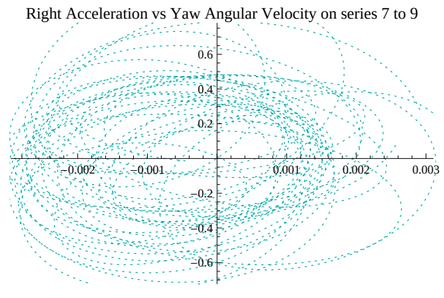
Right Acceleration vs Yaw Angular Velocity on series 1 to 3



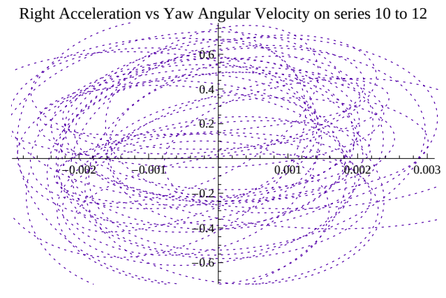
Right Acceleration vs Yaw Angular Velocity on series 4 to 6

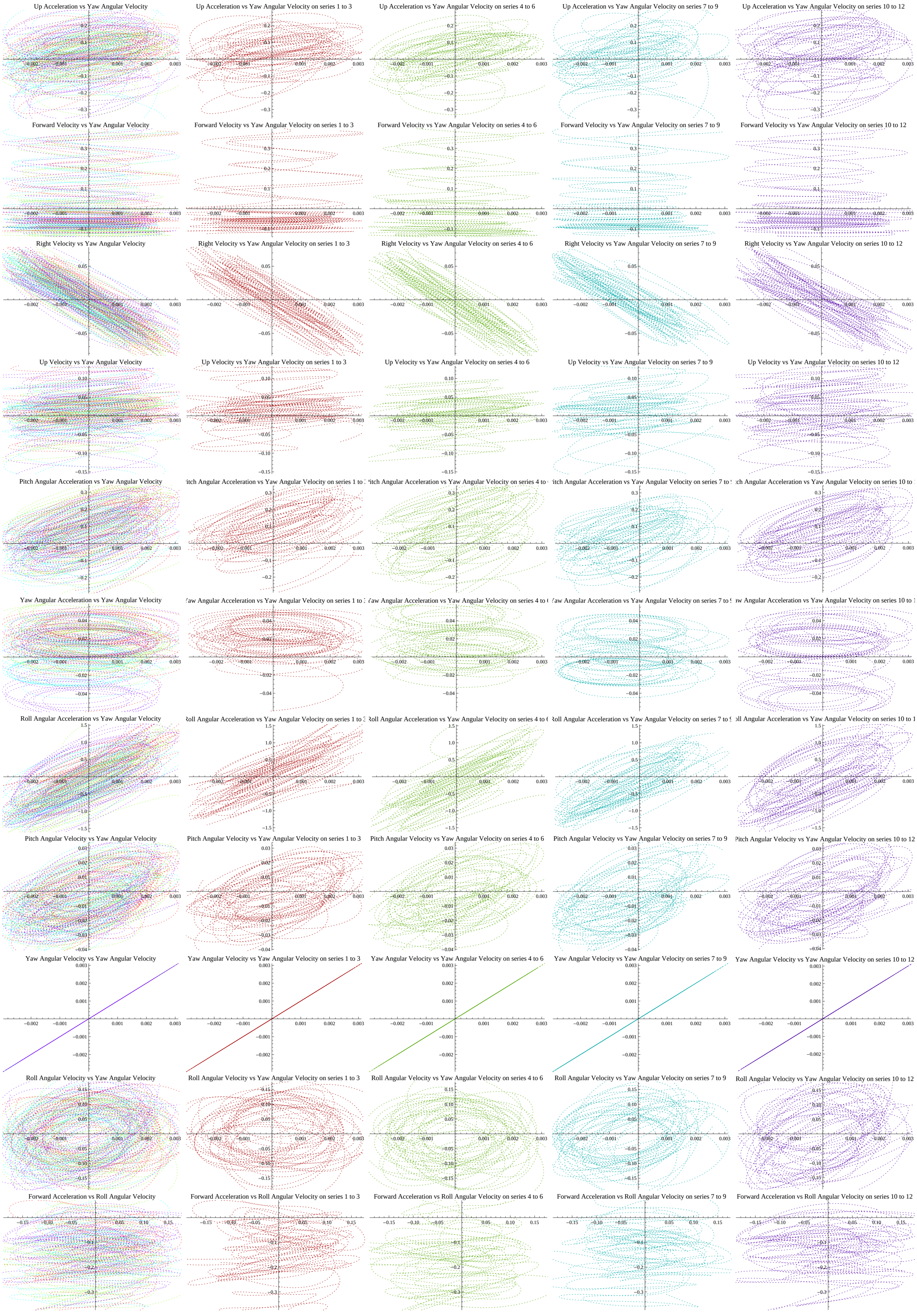


Right Acceleration vs Yaw Angular Velocity on series 7 to 9

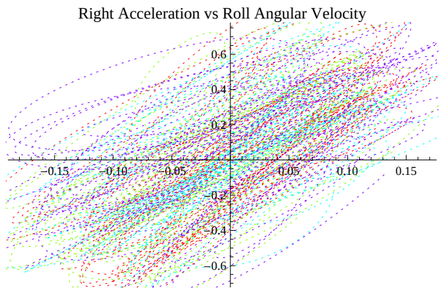


Right Acceleration vs Yaw Angular Velocity on series 10 to 12

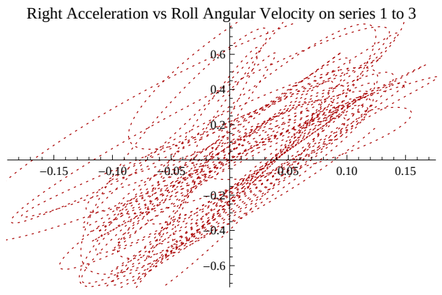



Up Acceleration vs Yaw Angular Velocity
Up Acceleration vs Yaw Angular Velocity on series 1 to 3
Up Acceleration vs Yaw Angular Velocity on series 4 to 6
Up Acceleration vs Yaw Angular Velocity on series 7 to 9
Up Acceleration vs Yaw Angular Velocity on series 10 to 12
Forward Velocity vs Yaw Angular Velocity
Forward Velocity vs Yaw Angular Velocity on series 1 to 3
Forward Velocity vs Yaw Angular Velocity on series 4 to 6
Forward Velocity vs Yaw Angular Velocity on series 7 to 9
Forward Velocity vs Yaw Angular Velocity on series 10 to 12
Right Velocity vs Yaw Angular Velocity
Right Velocity vs Yaw Angular Velocity on series 1 to 3
Right Velocity vs Yaw Angular Velocity on series 4 to 6
Right Velocity vs Yaw Angular Velocity on series 7 to 9
Right Velocity vs Yaw Angular Velocity on series 10 to 12
Up Velocity vs Yaw Angular Velocity
Up Velocity vs Yaw Angular Velocity on series 1 to 3
Up Velocity vs Yaw Angular Velocity on series 4 to 6
Up Velocity vs Yaw Angular Velocity on series 7 to 9
Up Velocity vs Yaw Angular Velocity on series 10 to 12
Pitch Angular Acceleration vs Yaw Angular Velocity
Yaw Angular Acceleration vs Yaw Angular Velocity
Roll Angular Acceleration vs Yaw Angular Velocity
Pitch Angular Velocity vs Yaw Angular Velocity
Pitch Angular Velocity vs Yaw Angular Velocity on series 1 to 3
Pitch Angular Velocity vs Yaw Angular Velocity on series 4 to 6
Pitch Angular Velocity vs Yaw Angular Velocity on series 7 to 9
Pitch Angular Velocity vs Yaw Angular Velocity on series 10 to 12
Yaw Angular Velocity vs Yaw Angular Velocity
Yaw Angular Velocity vs Yaw Angular Velocity on series 1 to 3
Yaw Angular Velocity vs Yaw Angular Velocity on series 4 to 6
Yaw Angular Velocity vs Yaw Angular Velocity on series 7 to 9
Yaw Angular Velocity vs Yaw Angular Velocity on series 10 to 12
Roll Angular Velocity vs Yaw Angular Velocity
Roll Angular Velocity vs Yaw Angular Velocity on series 1 to 3
Roll Angular Velocity vs Yaw Angular Velocity on series 4 to 6
Roll Angular Velocity vs Yaw Angular Velocity on series 7 to 9
Roll Angular Velocity vs Yaw Angular Velocity on series 10 to 12
Forward Acceleration vs Roll Angular Velocity
Forward Acceleration vs Roll Angular Velocity on series 1 to 3
Forward Acceleration vs Roll Angular Velocity on series 4 to 6
Forward Acceleration vs Roll Angular Velocity on series 7 to 9
Forward Acceleration vs Roll Angular Velocity on series 10 to 12

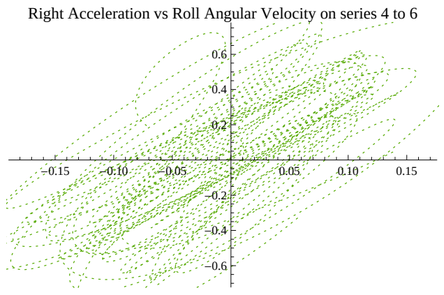
Right Acceleration vs Roll Angular Velocity



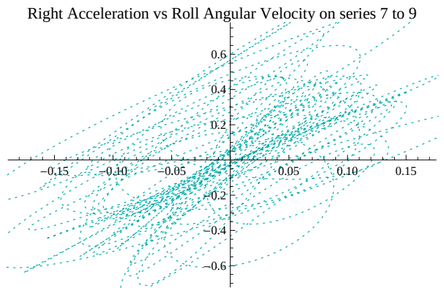
Right Acceleration vs Roll Angular Velocity on series 1 to 3



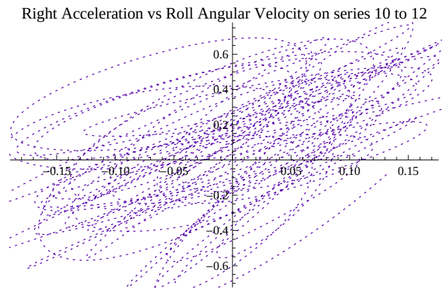
Right Acceleration vs Roll Angular Velocity on series 4 to 6



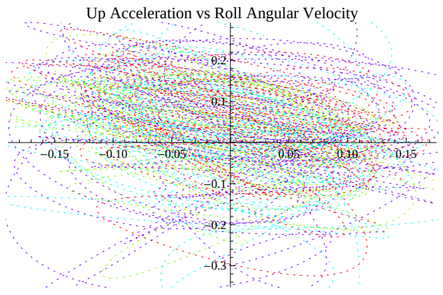
Right Acceleration vs Roll Angular Velocity on series 7 to 9



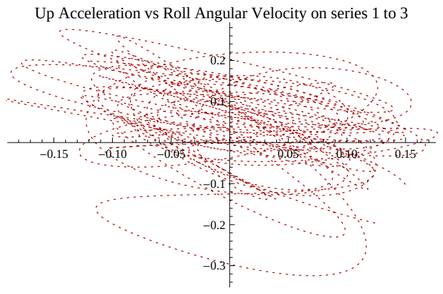
Right Acceleration vs Roll Angular Velocity on series 10 to 12



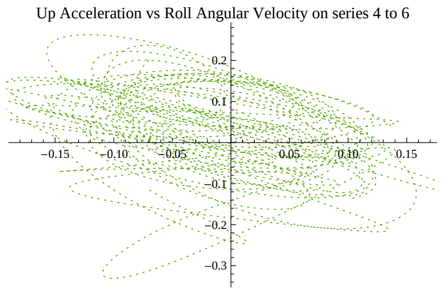
Up Acceleration vs Roll Angular Velocity



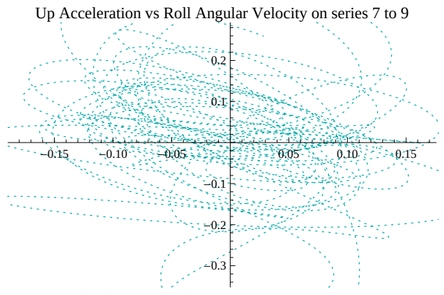
Up Acceleration vs Roll Angular Velocity on series 1 to 3



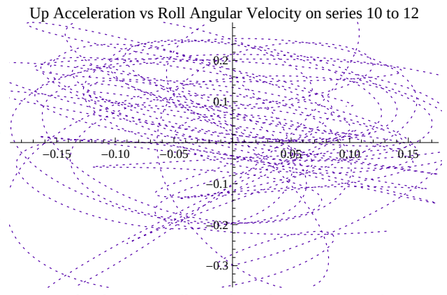
Up Acceleration vs Roll Angular Velocity on series 4 to 6



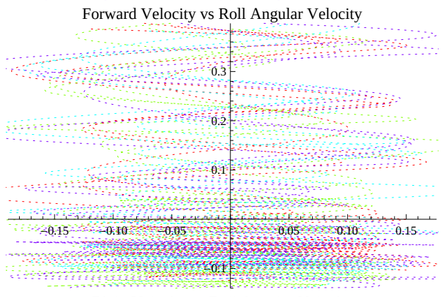
Up Acceleration vs Roll Angular Velocity on series 7 to 9



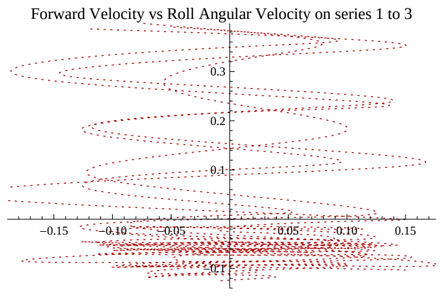
Up Acceleration vs Roll Angular Velocity on series 10 to 12



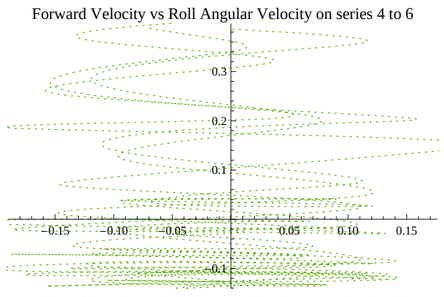
Forward Velocity vs Roll Angular Velocity



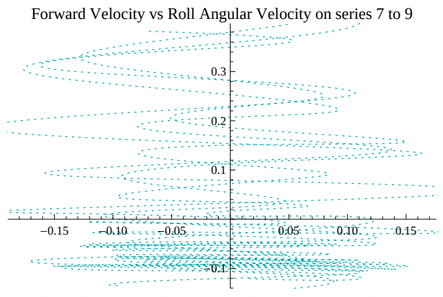
Forward Velocity vs Roll Angular Velocity on series 1 to 3



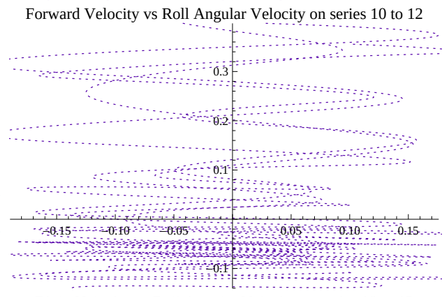
Forward Velocity vs Roll Angular Velocity on series 4 to 6



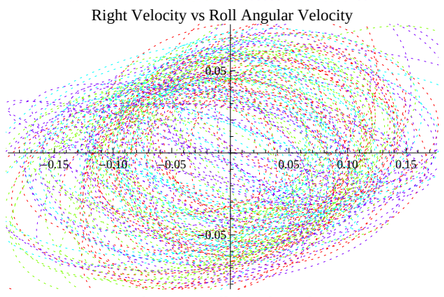
Forward Velocity vs Roll Angular Velocity on series 7 to 9



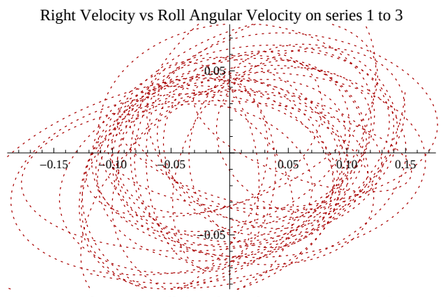
Forward Velocity vs Roll Angular Velocity on series 10 to 12



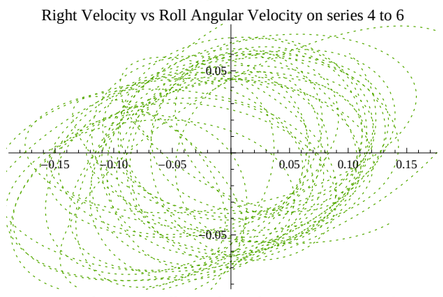
Right Velocity vs Roll Angular Velocity



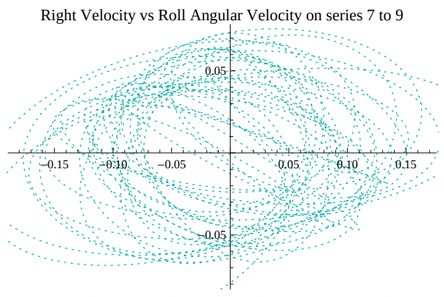
Right Velocity vs Roll Angular Velocity on series 1 to 3



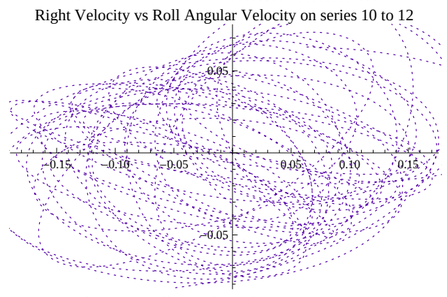
Right Velocity vs Roll Angular Velocity on series 4 to 6



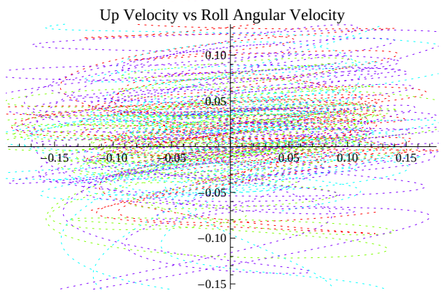
Right Velocity vs Roll Angular Velocity on series 7 to 9



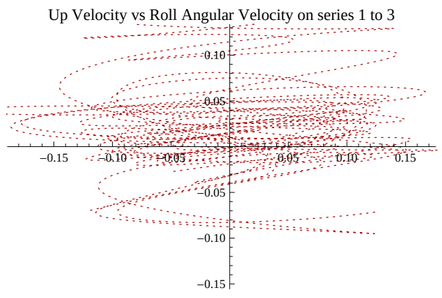
Right Velocity vs Roll Angular Velocity on series 10 to 12



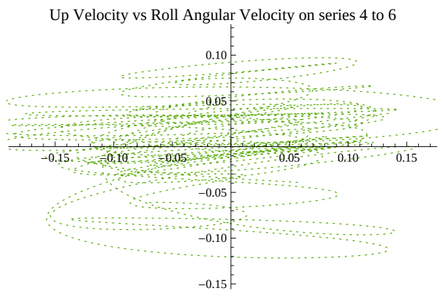
Up Velocity vs Roll Angular Velocity



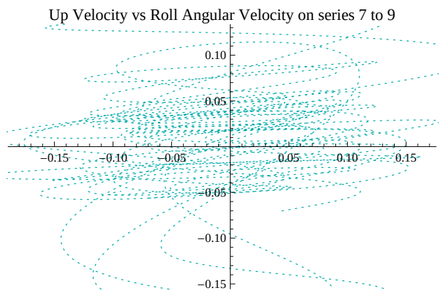
Up Velocity vs Roll Angular Velocity on series 1 to 3



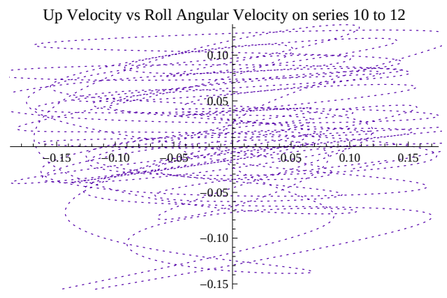
Up Velocity vs Roll Angular Velocity on series 4 to 6



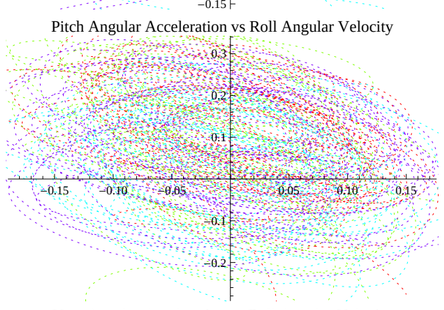
Up Velocity vs Roll Angular Velocity on series 7 to 9



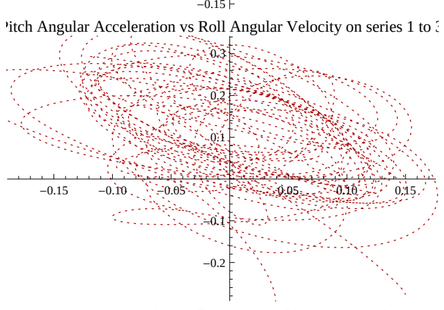
Up Velocity vs Roll Angular Velocity on series 10 to 12



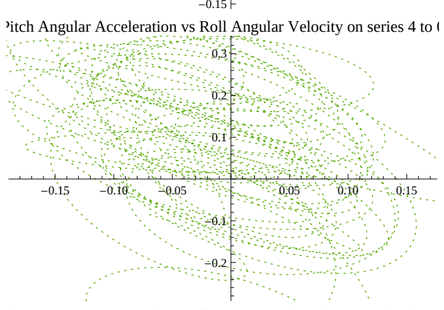
Pitch Angular Acceleration vs Roll Angular Velocity



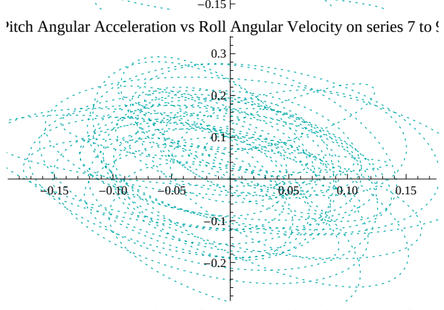
Pitch Angular Acceleration vs Roll Angular Velocity on series 1 to 3



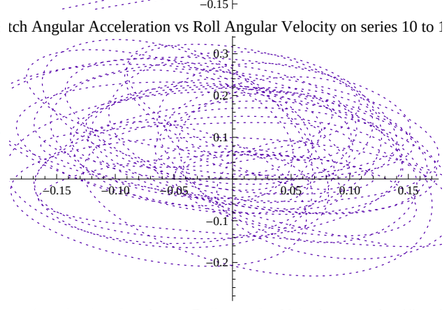
Pitch Angular Acceleration vs Roll Angular Velocity on series 4 to 6



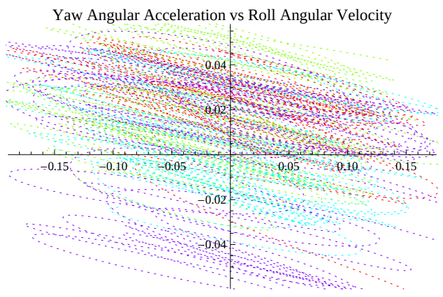
Pitch Angular Acceleration vs Roll Angular Velocity on series 7 to 9



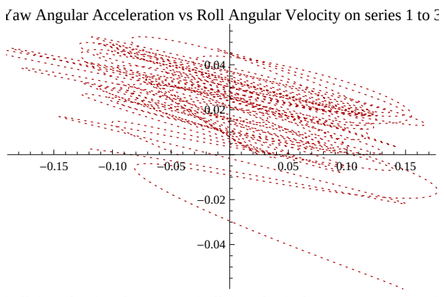
Pitch Angular Acceleration vs Roll Angular Velocity on series 10 to 12



Yaw Angular Acceleration vs Roll Angular Velocity



Yaw Angular Acceleration vs Roll Angular Velocity on series 1 to 3



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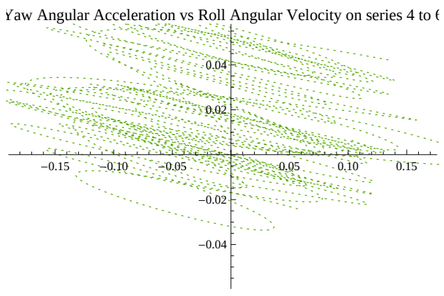
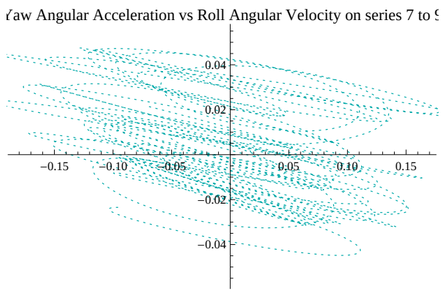
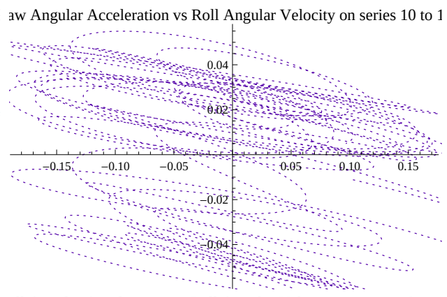


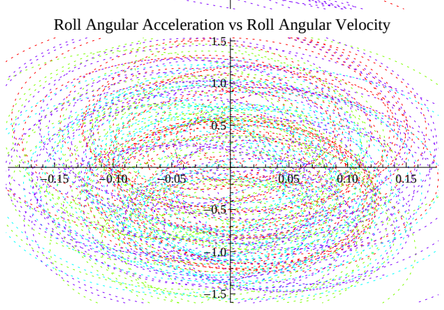
Yaw Angular Acceleration vs Roll Angular Velocity on series 7 to 9



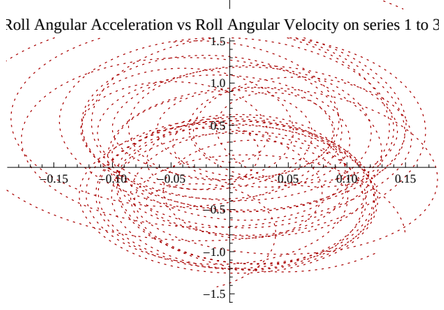
Yaw Angular Acceleration vs Roll Angular Velocity on series 10 to 12



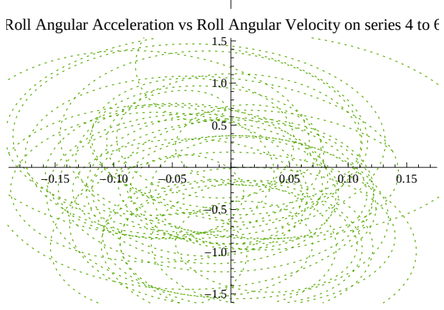
Roll Angular Acceleration vs Roll Angular Velocity



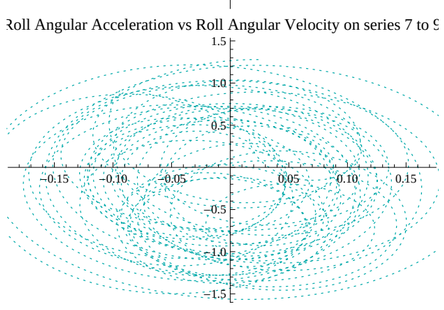
Roll Angular Acceleration vs Roll Angular Velocity on series 1 to 3



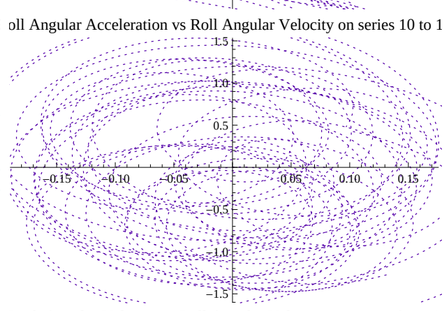
Roll Angular Acceleration vs Roll Angular Velocity on series 4 to 6



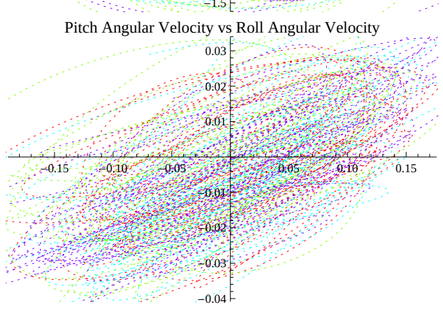
Roll Angular Acceleration vs Roll Angular Velocity on series 7 to 9



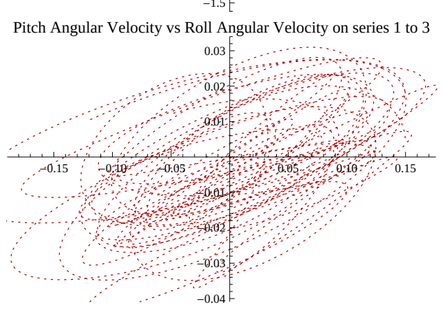
Roll Angular Acceleration vs Roll Angular Velocity on series 10 to 12



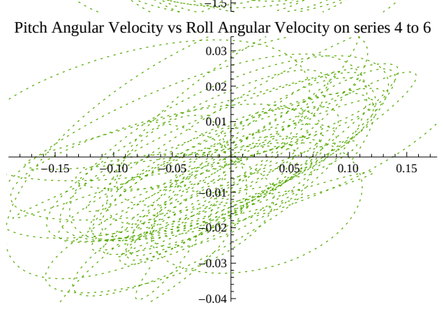
Pitch Angular Velocity vs Roll Angular Velocity



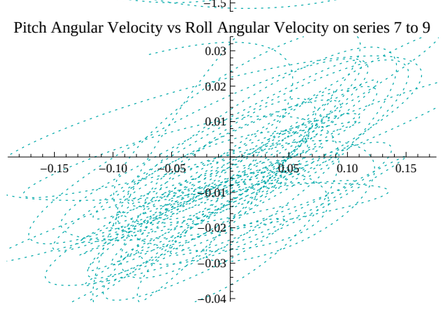
Pitch Angular Velocity vs Roll Angular Velocity on series 1 to 3



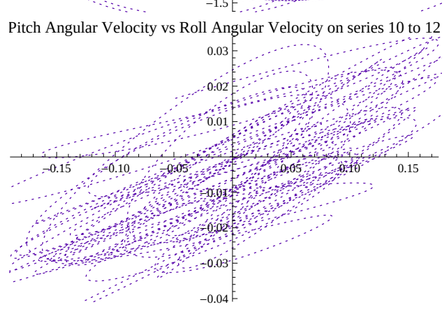
Pitch Angular Velocity vs Roll Angular Velocity on series 4 to 6



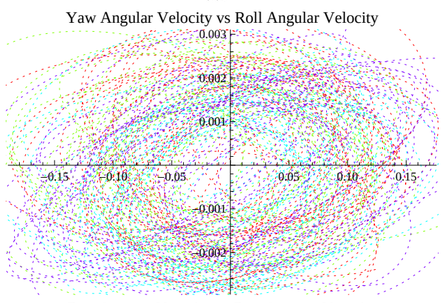
Pitch Angular Velocity vs Roll Angular Velocity on series 7 to 9



Pitch Angular Velocity vs Roll Angular Velocity on series 10 to 12



Yaw Angular Velocity vs Roll Angular Velocity



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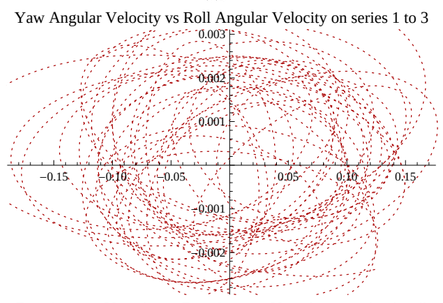

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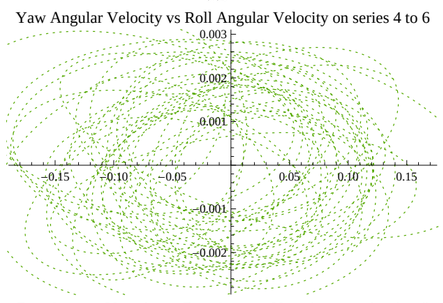

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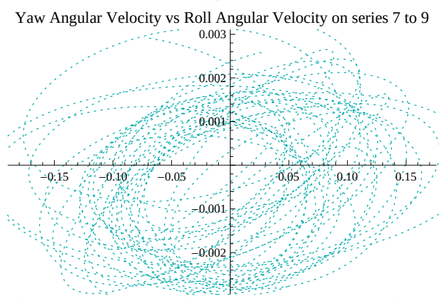
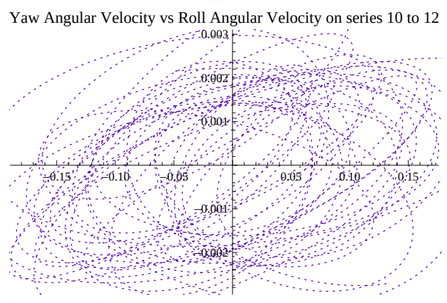
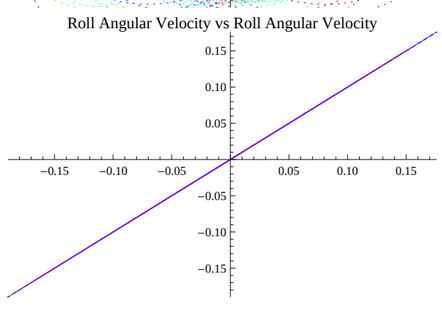


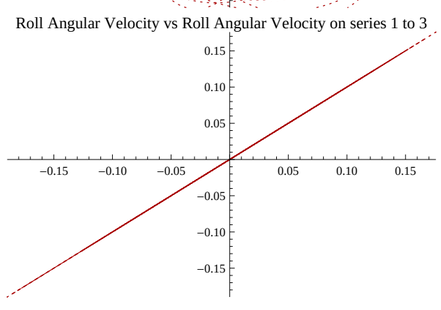
Yaw Angular Velocity vs Roll Angular Velocity on series 10 to 12



Roll Angular Velocity vs Roll Angular Velocity



Roll Angular Velocity vs Roll Angular Velocity on series 1 to 3



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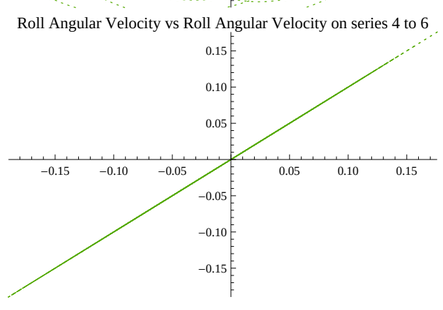
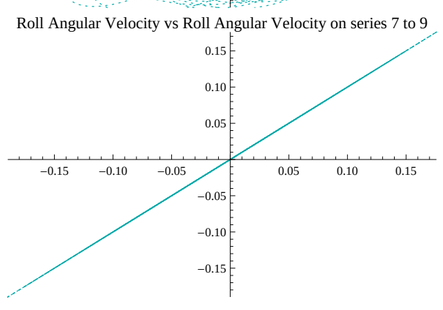
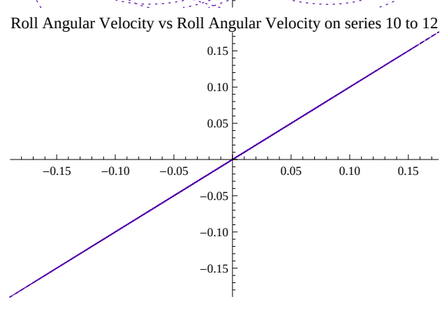


Roll Angular Velocity vs Roll Angular Velocity on series 7 to 9



Roll Angular Velocity vs Roll Angular Velocity on series 10 to 12