

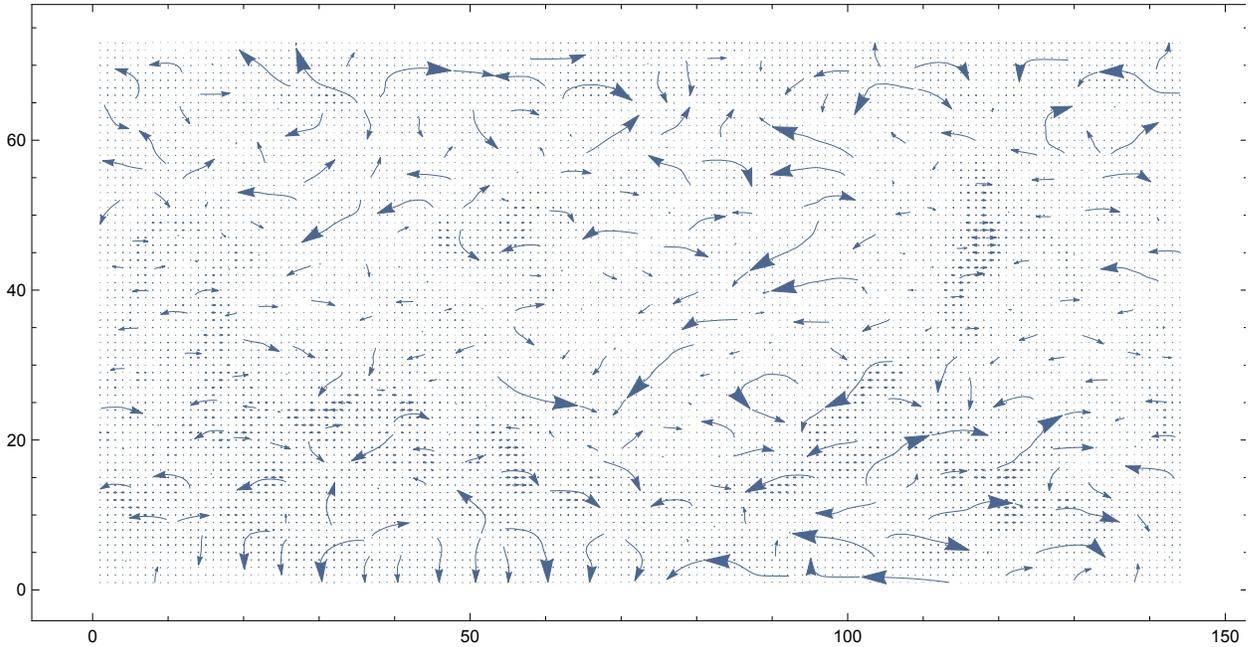
c2 is Laplacian and c1 is the derivative with regards to time. So vectors are (Laplacian, dT/dt), both data sets are non-normalized.

Day 1

In[120]=

```
day = 1;  
data = 1 * Table[{c2[[day, y, x]], c1[[day, y, x]]},  
  {x, 1, Dimensions[c1][[3]], 1}, {y, 1, Dimensions[c1][[2]], 1}];  
ListStreamPlot[data, AspectRatio -> 73 / 144, StreamPoints -> 1000,  
  VectorPoints -> {144, 73}, ImageSize -> 650]
```

Out[122]=



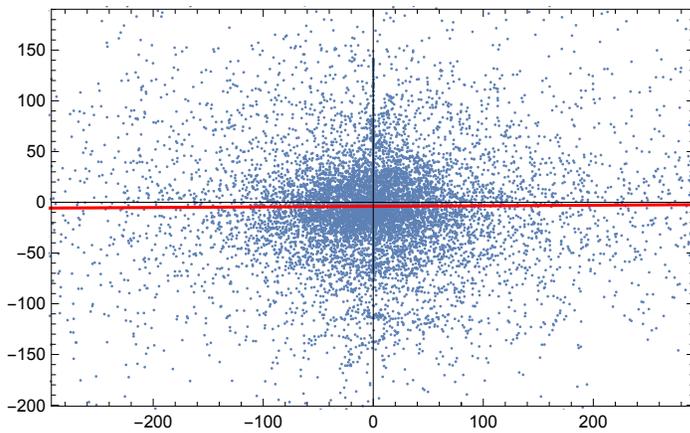
In[58]=

```
lm = LinearModelFit[Flatten[data, 1], x, x]  
Show[ListPlot[Flatten[data, 1]],  
  Plot[lm[x], {x, -300, 300}, PlotStyle -> {Red}], Frame -> True]
```

Out[58]=

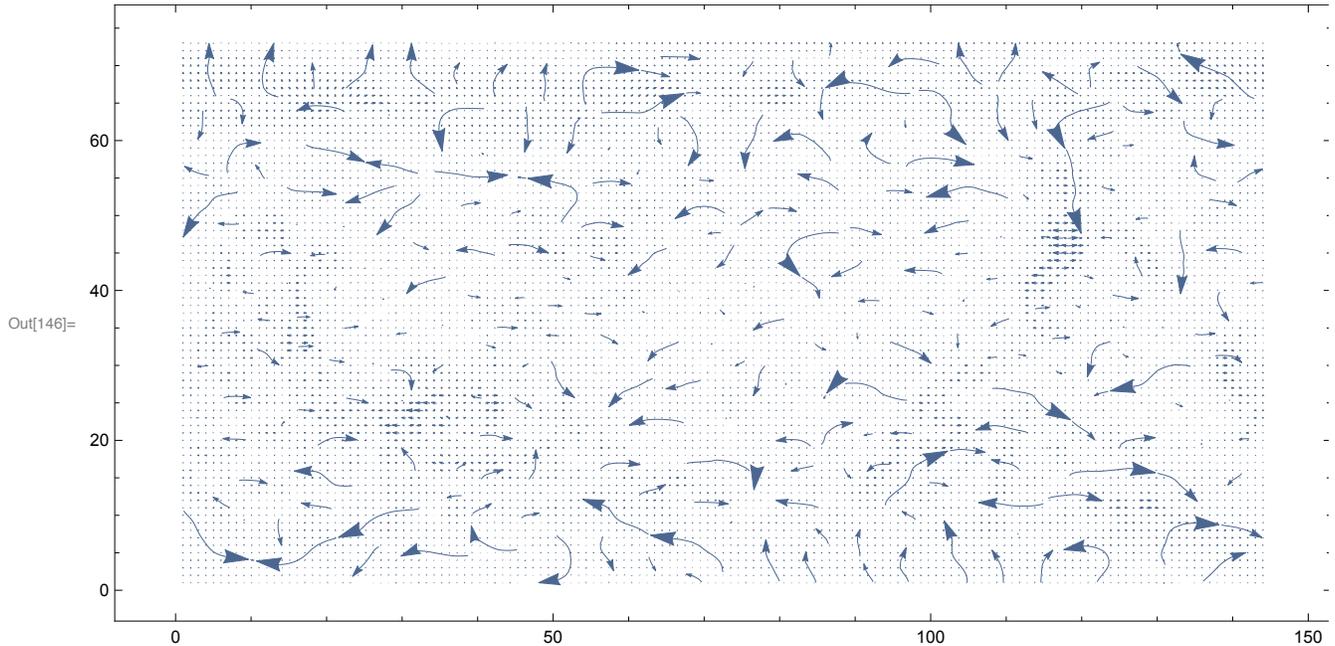
```
FittedModel [ -4.03526+0.00566864 x ]
```

Out[59]=



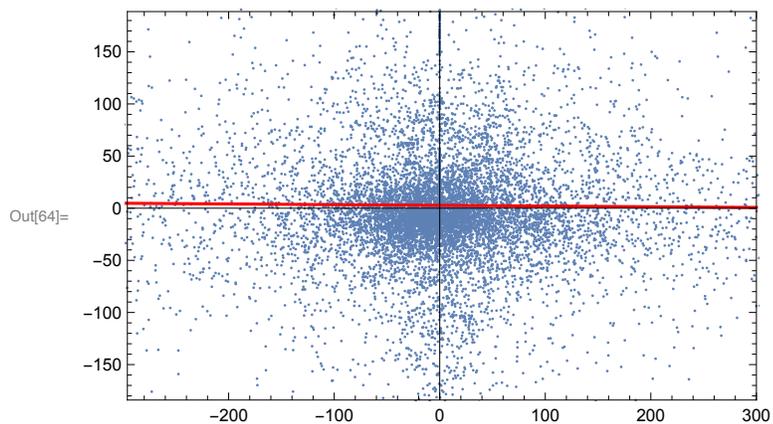
Day 100

```
In[144]:= day = 100;
data = Table[{c2[[day, y, x]], c1[[day, y, x]]},
  {x, 1, Dimensions[c1][[3]], 1}, {y, 1, Dimensions[c1][[2]], 1}];
ListStreamPlot[data, AspectRatio -> 73 / 144, StreamPoints -> 1000,
  VectorPoints -> {143, 73}, ImageSize -> 650]
```



```
In[63]:= lm = LinearModelFit[Flatten[data, 1], x, x]
Show[ListPlot[Flatten[data, 1]],
  Plot[lm[x], {x, -300, 300}, PlotStyle -> {Red}], Frame -> True]
```

Out[63]= FittedModel [ 2.72765 - 0.0067583 x ]

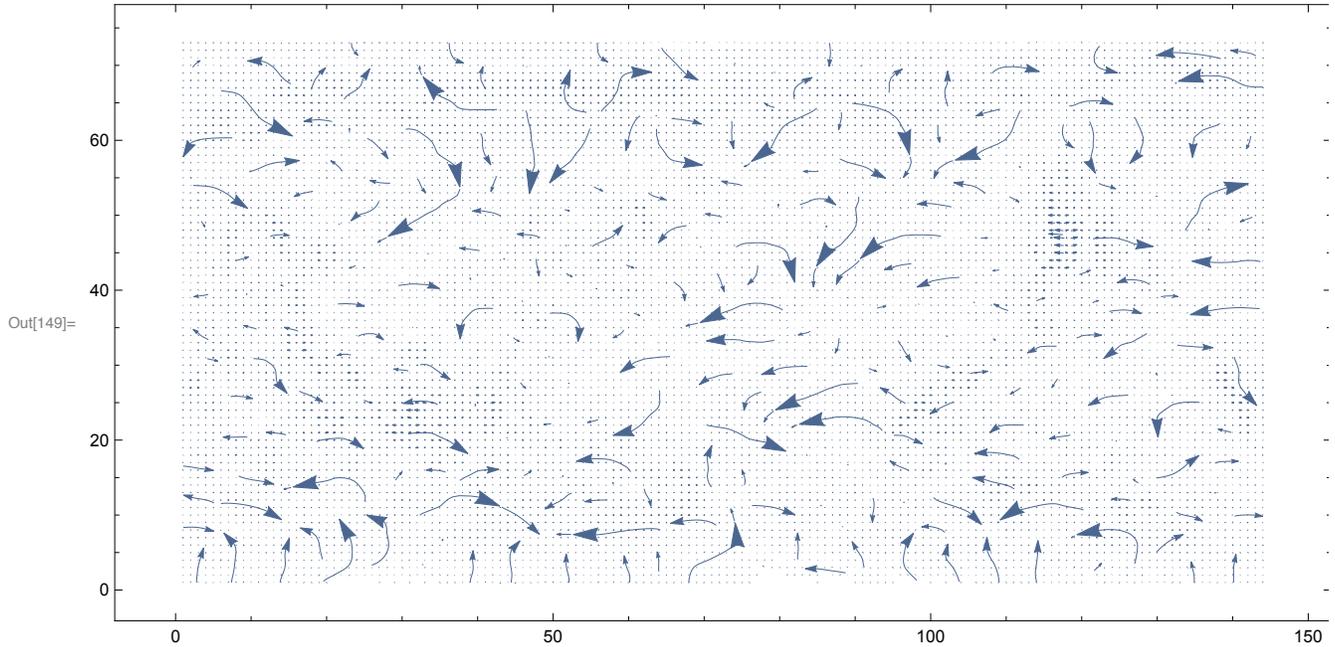


Day 200

```

In[147]:= day = 200;
data = Table[{c2[[day, y, x]], c1[[day, y, x]]},
  {x, 1, Dimensions[c1][[3]], 1}, {y, 1, Dimensions[c1][[2]], 1}];
ListStreamPlot[data, AspectRatio -> 73 / 144, StreamPoints -> 1000,
  VectorPoints -> {144, 73}, ImageSize -> 650]

```

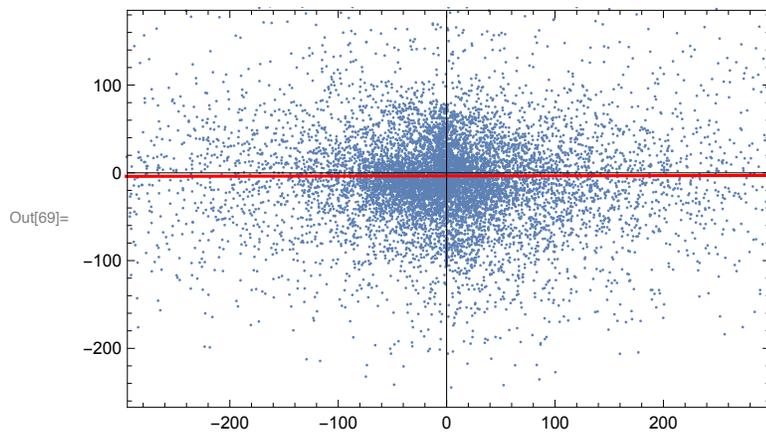


```

In[68]:= lm = LinearModelFit[Flatten[data, 1], x, x]
Show[ListPlot[Flatten[data, 1]],
  Plot[lm[x], {x, -300, 300}, PlotStyle -> {Red}], Frame -> True]

```

Out[68]= FittedModel [  $-3.51247 + 0.00172804 x$  ]



Day 300

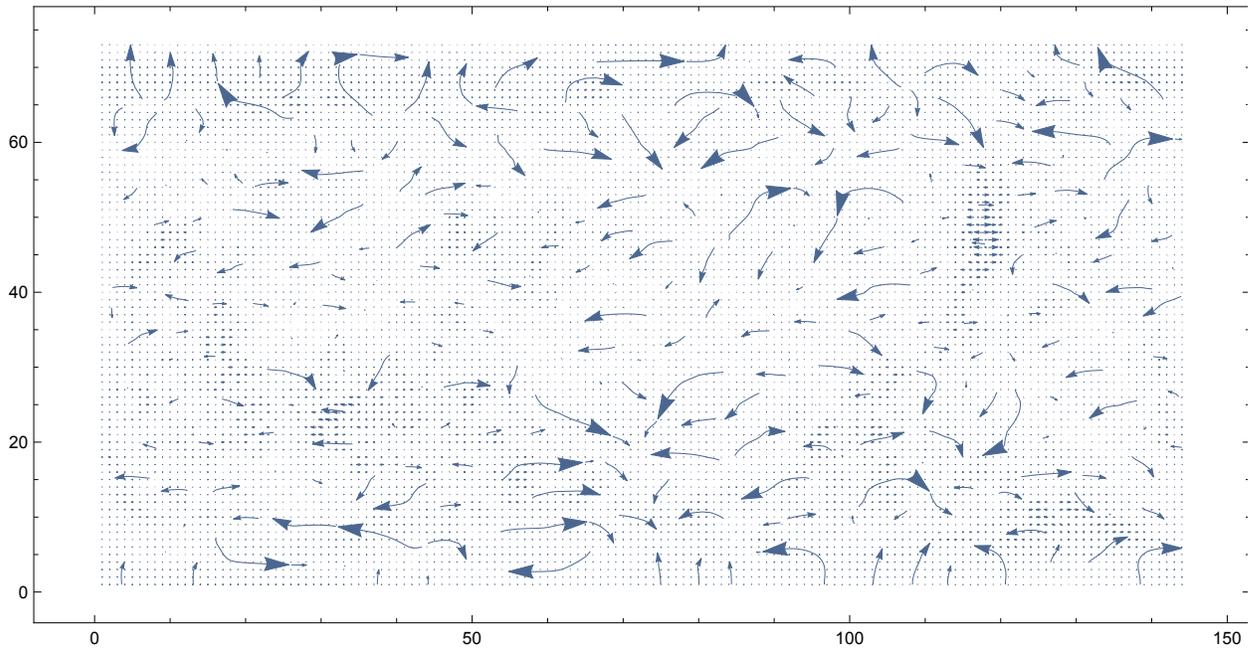
In[150]:=

```

day = 300;
data = Table[{c2[[day, y, x]], c1[[day, y, x]]},
  {x, 1, Dimensions[c1][[3]], 1}, {y, 1, Dimensions[c1][[2]], 1}];
ListStreamPlot[data, AspectRatio → 73 / 144, StreamPoints → 1000,
  VectorPoints → {144, 73}, ImageSize → 650]

```

Out[152]=

In[73]:= **lm = LinearModelFit[Flatten[data, 1], x, x]**Out[73]= FittedModel [  $6.65382 - 0.000761057x$  ]

```

In[74]:= Show[ListPlot[Flatten[data, 1]],
  Plot[lm[x], {x, -300, 300}, PlotStyle → {Red}, Frame → True]

```

Out[74]=

