

TITAN



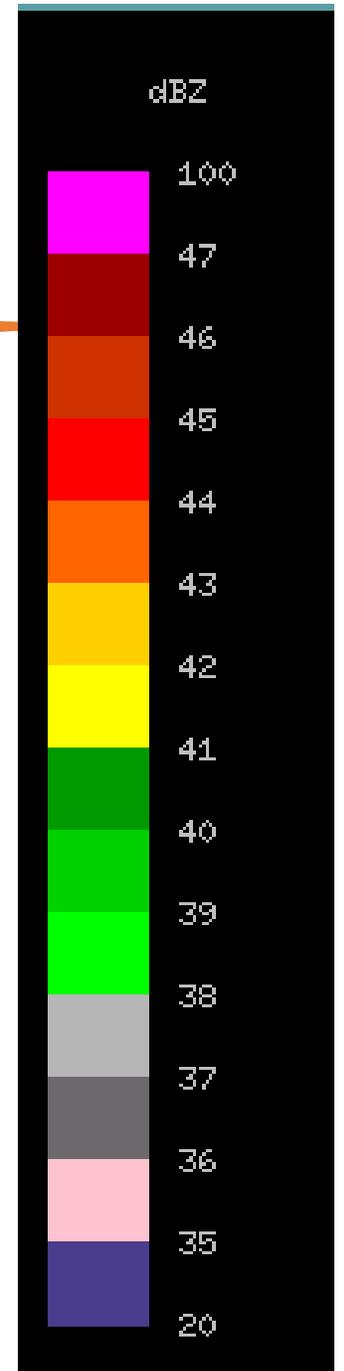
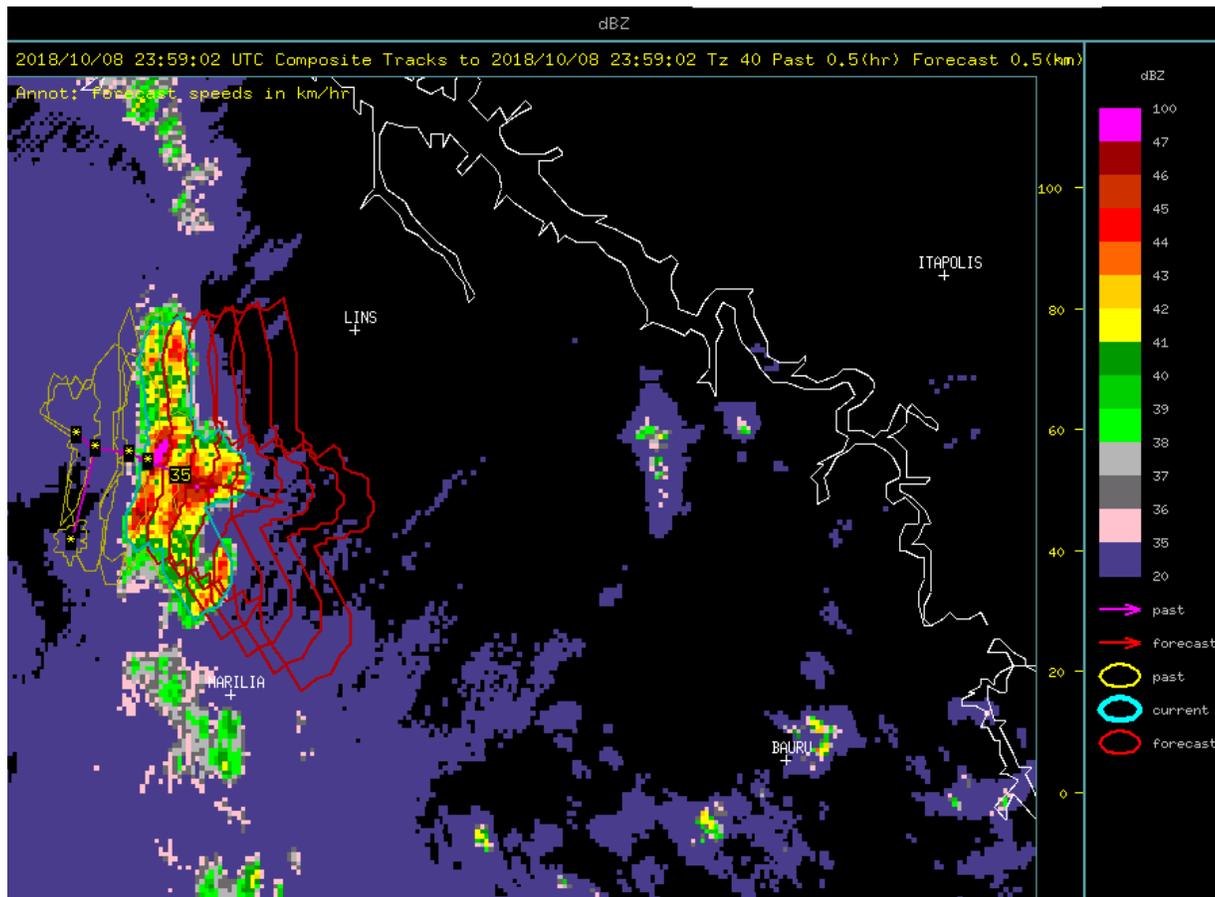
Conhecendo o TITAN

- Thunderstorm Identification, Tracking, Analysis and Nowcasting (Identificação, Rastreamento, Análise e Nowcasting de Tempestade).
- É um algoritmo disponibilizado e utilizado desde os anos 90 pela NCAR (Centro Nacional de Pesquisas Atmosféricas), capaz de rastrear e detectar tempestades severas automaticamente.
- Calcula ampla gama de atributos de tempestade como topo do eco, altura da refletividade máxima, movimento das tempestades, entre muitos outros.

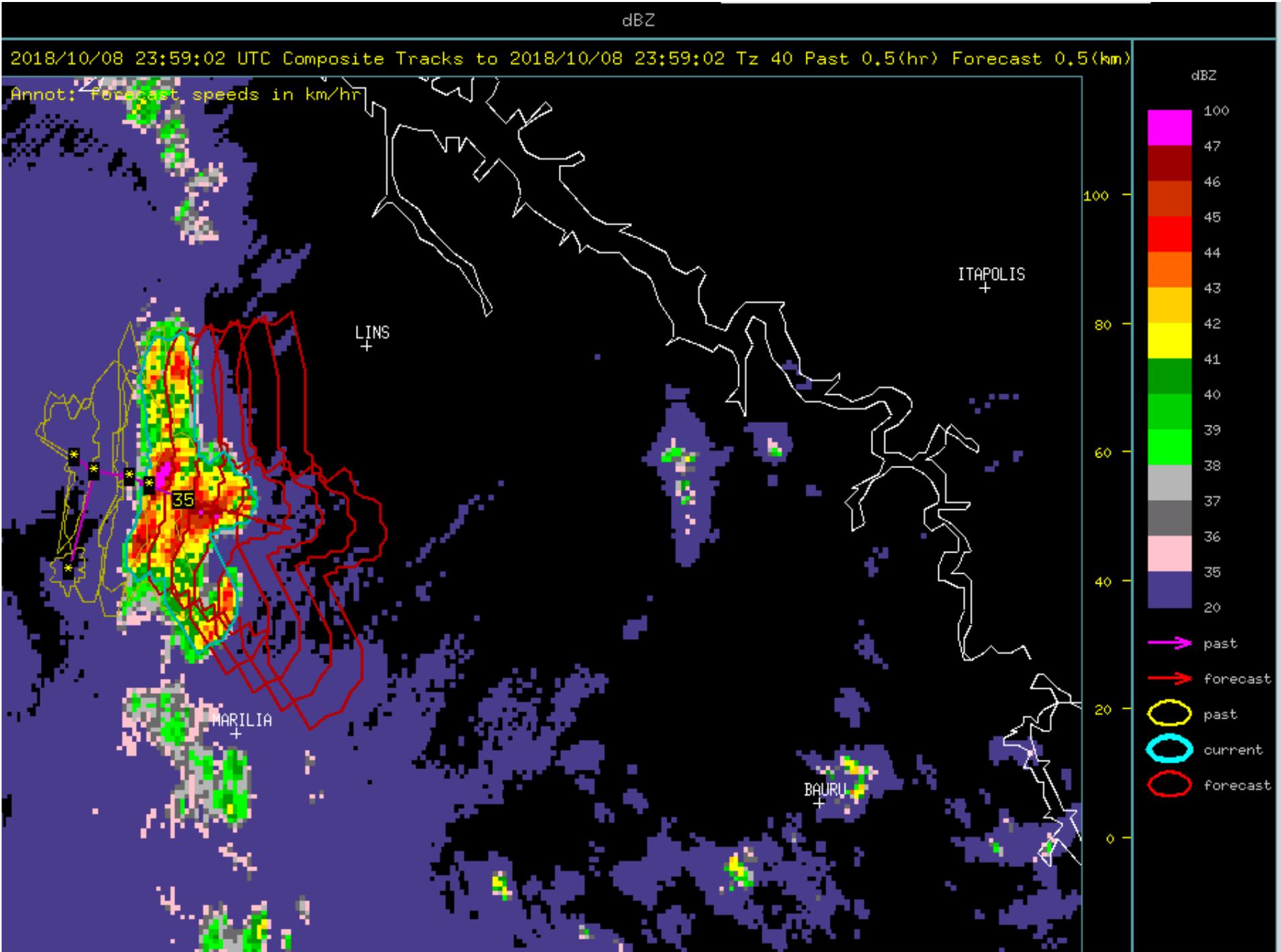
Executando o TITAN

- Conversão dos dados de coordenadas polares dos radares para coordenadas cartesianas.
- Volumes cartesianos são os planos CAPPI (Indicador de Posição de Altitude Constante) empilhados uns sobre os outros com espaçamento vertical igual.
- Processamento dos dados volumétricos de refletividade a partir da leitura de arquivos de parâmetros.
- Imagens e produtos dos campos de refletividades através do TITAN.

Produtos do TITAN



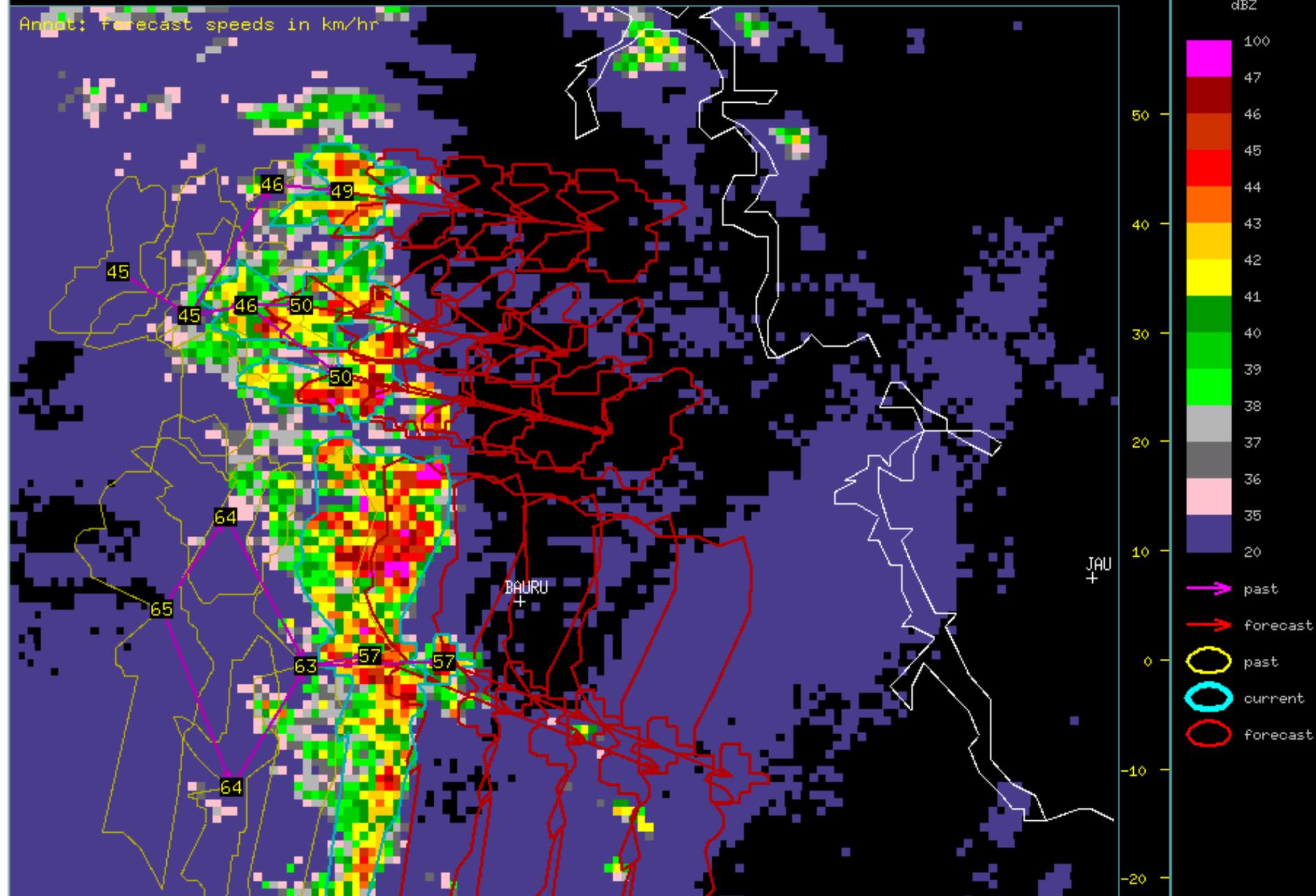
08/10/2018
e
09/10/2018



dBZ

2018/10/09 01:29:06 UTC Composite Tracks to 2018/10/09 01:29:06 Tz 40 Past 0.5(hr) Forecast 0.5(km)

Annotation: forecast speeds in km/hr



2018/10/09 01:51:35 UTC Composite Tracks to 2018/10/09 01:51:35 Tz 40 Forecast 0.5(hr)

Ampt: forecast speeds in km/hr

ITAPOLIS

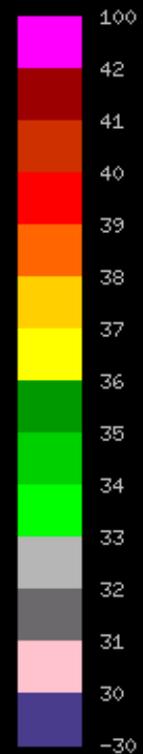
ARARAQUARA

BAURIL 58

JAU

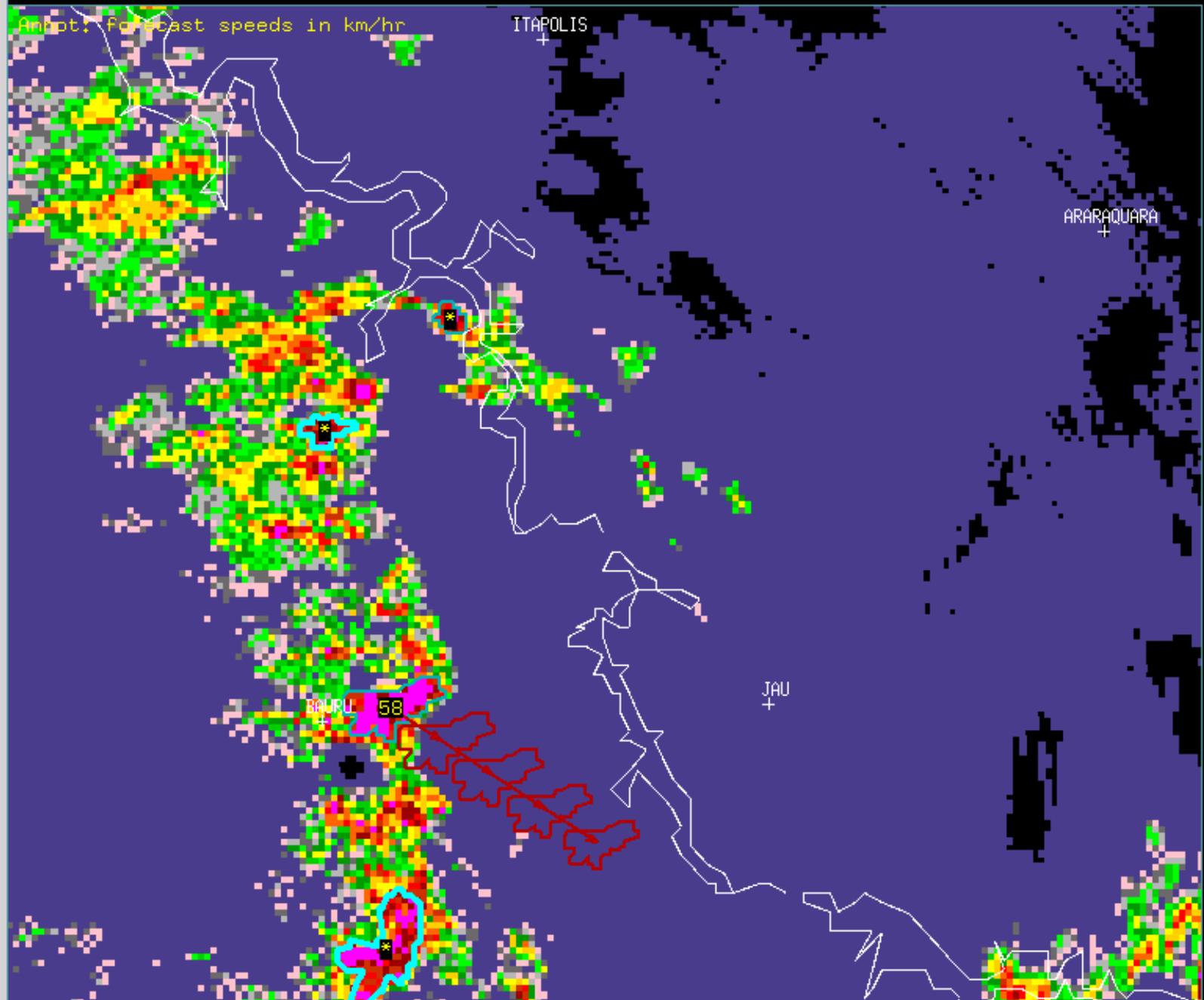
km

dBZ



80
60
40
20
0
-20

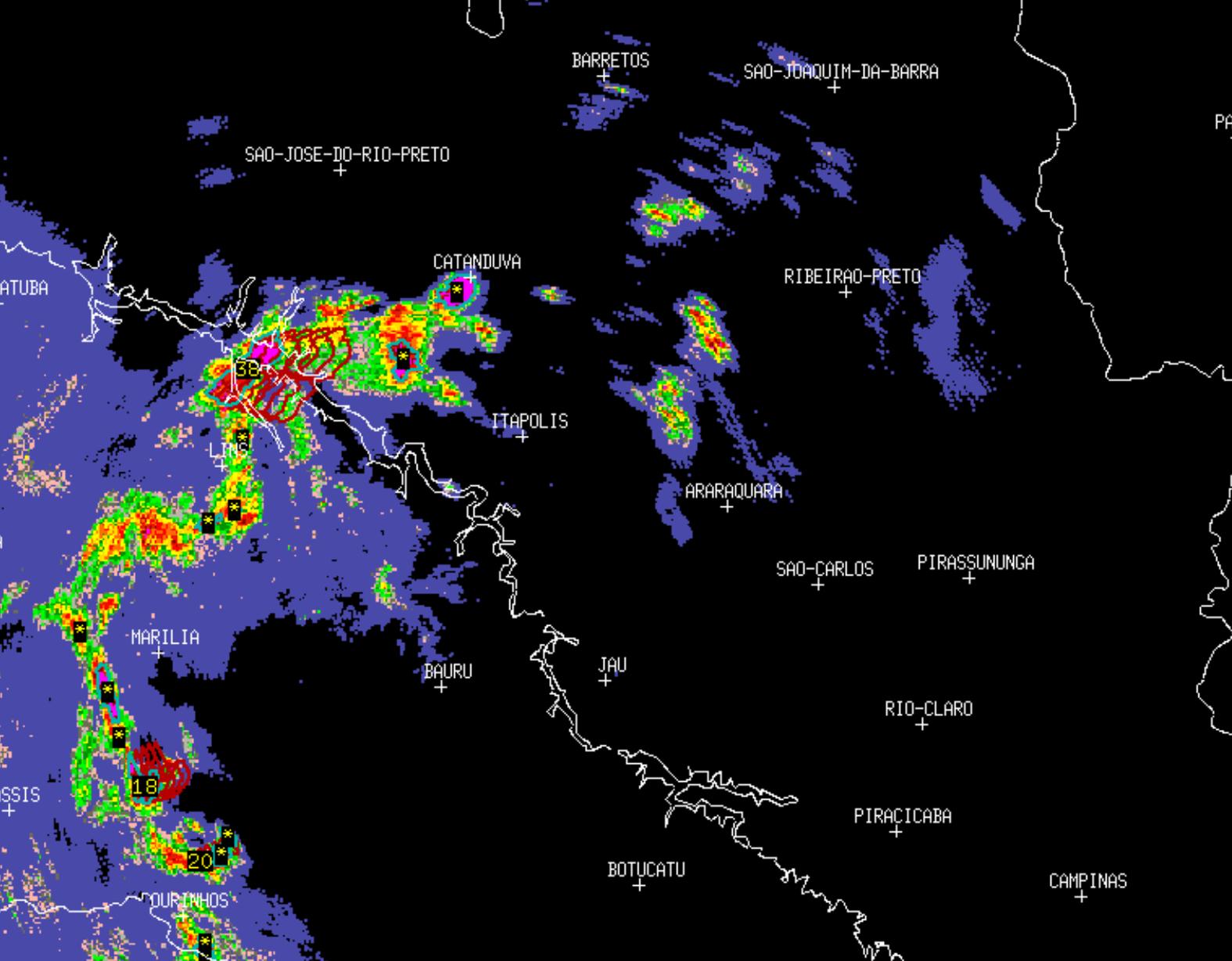
- forecast
- current
- forecast



2019/03/20 22:43:51 UTC Composite Tracks to 2019/03/20 22:43:51 Tz 40 Forecast 0.5(hr)

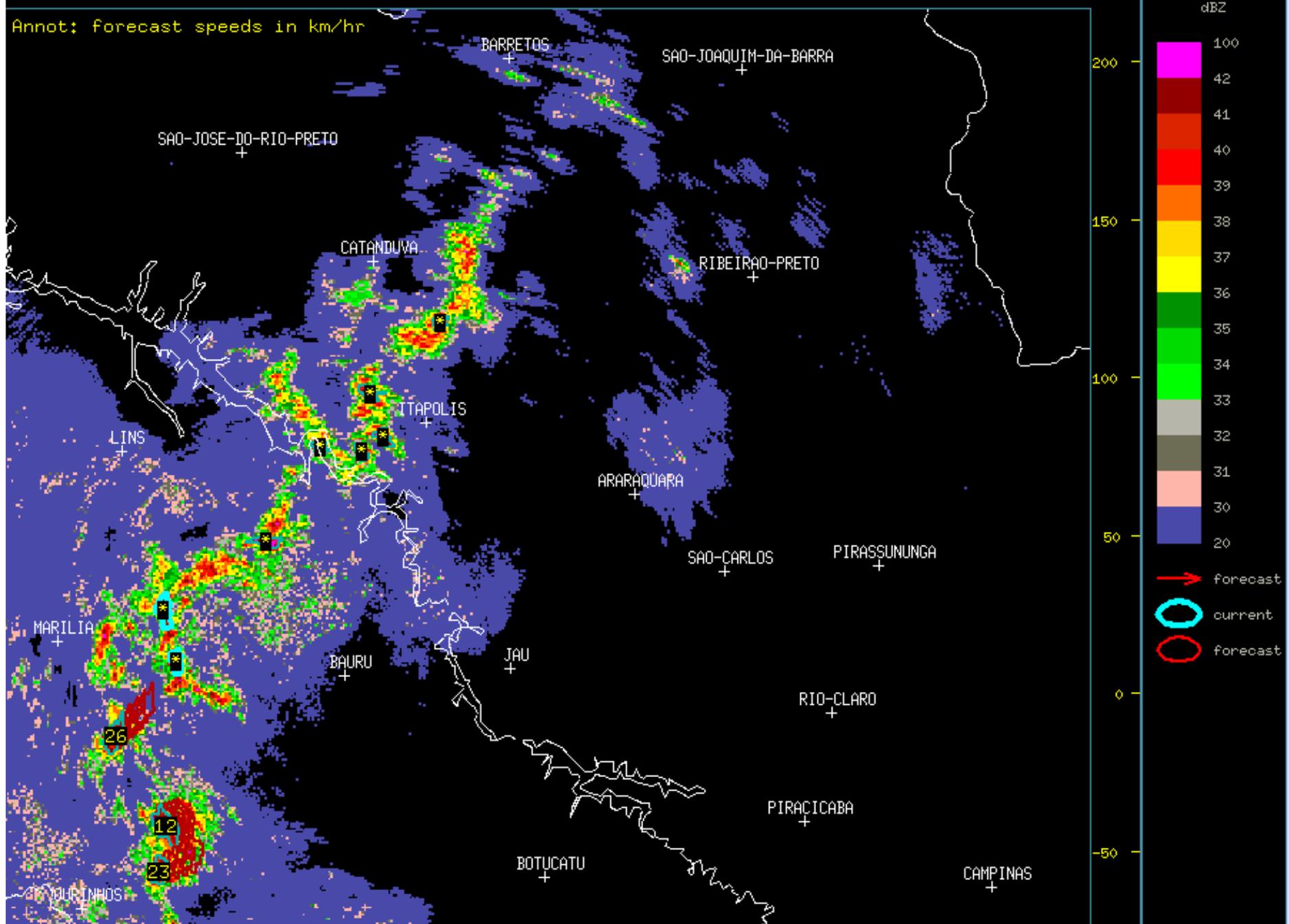
Annot: forecast speeds in km/hr

FERNANDOPOLIS



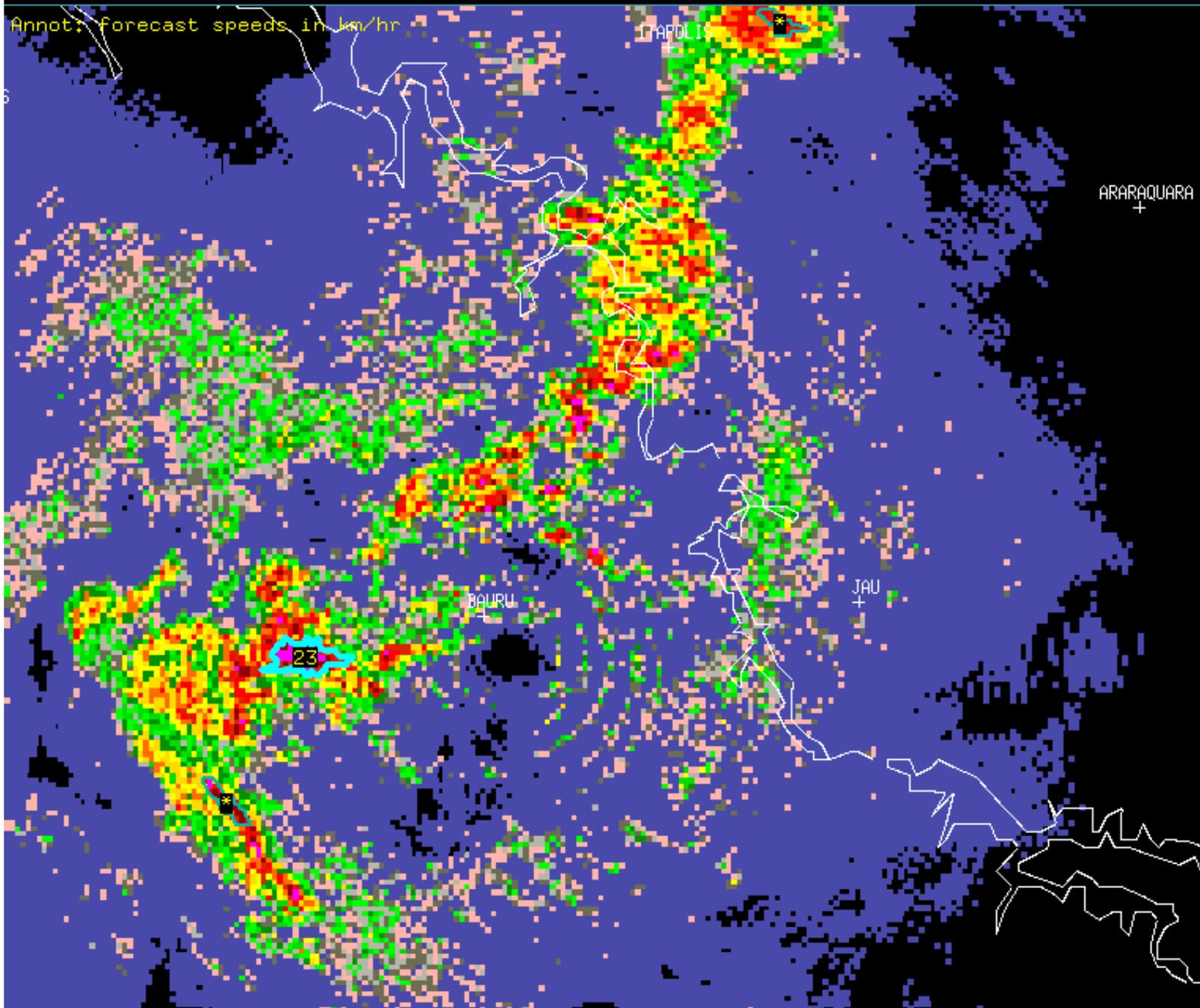
20/03/2019
e
21/03/2019

Annot: forecast speeds in km/hr



2019/03/21 00:51:23 UTC Composite Tracks to 2019/03/21 00:51:23 Tz 40

Annot: forecast speeds in km/hr



km

80

60

40

20

0

-20

-40

dBZ

100

42

41

40

39

38

37

36

35

34

33

32

31

30

20

current

Obrigada!

